According to Regulation (EC) No. 1907/2006 (REACH)



Bacterial Amylase - A01740

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Bacterial Amylase

 Product No.:
 A01740

 SDS No.:
 906007

 Material No.
 025098

CAS No.:

EC No.:

Index No.:

Not applicable.

Not applicable.

Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s): Enzymatic mixture for use in educational science experiments.

Professional use only.

Uses advised against: Follow supplier's recommendations on correct use of the product.

1.3 Details of the supplier of the safety data sheet

Supplier: Philip Harris Manufacturing Ltd.

Unit 72, Gazelle Road Weston Industrial Estate Weston-super-Mare

BS24 9BJ

Telephone: +44 (0)1934 413 606

Fax: +44 (0)1934 626 421

E-mail: sdsinfo@philipharrismanufacturing.co.uk

1.4 Emergency telephone number

In case of emergency, call: +44 (0)1934 413 606

Monday - Thursday: 08:30 - 17:00 UK time

Friday: 08:30 - 13:00 UK time

SECTION 2: Hazard Identification

- 2.1 Classification of the substance or mixture
 - 2.1.1. Classification according to Regulation (EC) No. 1272/2008 (CLP)

Resp. Sens. 1; H334

2.1.2. Classification according to Directive 67/548/EEC & Directive 1999/45/EC

Xn; R42

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2.2 Label elements

2.2.1. Label according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictogram(s):



Signal Word: Danger.

Hazard Statement(s): H334: May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Precautionary Statement(s): P261: Avoid breathing vapour.

P284: Wear respiratory protection.

P304 + P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P342 + P311: If experiencing respiratory symptoms: Call a

POISON CENTER or doctor.

P501: Dispose of contents/container to hazardous waste collection point for disposal in accordance with local, regional, national or

international regulations.

Supplemental Hazard information (EU):

None.

2.3 Other hazards

The product does not meet the criteria for PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification (Regulation (EC) No. 1272/2008 (CLP))	Classification (Directive 67/548/EEC)
Amylase, α-	50-70	9000-90-2	232-565-6	647-015-00-4	Resp. Sens . 1; H334	Xn; R42

See Section 16 for full description of R phrases and H statements.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

INHALATION: Remove person to fresh air and keep in a position comfortable for breathing. Keep warm

and at rest. If experiencing respiratory symptoms, obtain immediate medical attention.

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SKIN CONTACT: Take off immediately all contaminated clothing. Rinse skin with plenty of water. If irritation

develops and persists, get medical attention. Contaminated clothing should be washed

before reuse.

EYE CONTACT: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present

and easy to do. Continue rinsing, making sure to rinse under eyelids. If eye irritation

persists, get medical attention.

INGESTION: Do not induce vomiting. Provided the patient is conscious, rinse mouth out with water and

give 200-300 mL of water to drink. Never give anything by mouth to an unconscious

person. If symptoms develop, get medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

Inhalation may cause allergy or asthma symptoms or breathing difficulties if inhaled. Shortness of breath, wheezing and coughing. The effect of inhalation may be delayed. Skin contact may cause slight irritation. Eye contact may cause slight irritation and redness. Ingestion may cause gastrointestinal irritation.

4.3 Indication of any immediate medical attention and special treatments needed:

In case of accident or if you feel unwell, seek medical advice immediately. Show this Safety Data Sheet to the doctor in attendance. If breathing is laboured, oxygen should be administered by qualified personnel.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media: Use extinguishant suitable for surrounding fire. Water spray,

alcohol-resistant foam, CO₂ or dry powder.

Unsuitable extinguishing media: None identified.

5.2 Special hazards arising from the substance or mixture

Containers exposed to fire may burst due to a build-up of pressure.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Combustion may liberate toxic fumes: Carbon monoxide, carbon dioxide, nitrogen oxides, sulphur oxides.

5.3 Advice for fire-fighters

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep fire exposed containers cool by spraying with water. Do not allow to enter drains, sewers or watercourses.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Provide adequate ventilation to minimise exposure to vapour. Do not breathe vapour. Avoid contact with skin, eyes or clothing. Wear suitable personal protective equipment. Wear appropriate respirator when ventilation is inadequate (See Section 8).

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6.1.2 For emergency responders

Keep unnecessary personnel away. Wear suitable protective clothing (See Section 8). Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to enter watercourses or surface water drainage (storm drains). Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

6.3 Methods and materials for containment and clearing up

6.3.1 For containment

Stop the leak if it is safe to do so. Contain the spillage with sand, earth or any suitable adsorbent material.

6.3.2 For cleaning up

Use sand, earth or any suitable non-combustible adsorbent material to adsorb spillages. Transfer the contaminated absorbent material into a sealable container for disposal. Dispose of contaminated material as waste according to Section 13. Wash spill area with large amounts of water (discharge to foul sewer only).

6.3.3 Other advice

None.

6.4 Reference to other sections

See Section 8 for personal protective equipment. See Section 13 for waste disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Provide adequate ventilation to minimise exposure to vapour. Do not breathe vapour. Avoid contact with skin, eyes or clothing. Wear suitable personal protective equipment (See Section 8).

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Storage in a refrigerator will prolong useful life. Recommended storage temperature: 0 – 25°C. Protect from direct sunlight.

Keep away from: strong oxidising agents.

7.3 Specific end use(s)

Enzymatic mixture for use in educational science experiments. Professional use only.

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SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Workplace exposure limits

Source: EH40/2005, 2nd Ed., 2011.

No occupational exposure limits assigned.

DMELs (Workers)

Substance	Route	Acute/short-to	erm exposure	Long-term exposure		
		Systemic effects	Local effects	Systemic effects	Local effects	
Amylase, α-	Inhalation	-	=	0.00006 mg/m ³	0.00006 mg/m ³	
	Dermal	=	=	=	=	

PNECs

Substance	Aqua (fresh water)	Aqua (marine water)	Aqua (intermittent releases)	Sewage Treatment Plants	Sediment (fresh water)	Sediment (marine water)	Soil	Oral
Amylase, α-	0.0052 mg/L	0.00052 mg/L	0.0052 mg/L	65 mg/L	Exposure not expected	Exposure not expected	-	No bioaccum- ulation potential.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation to minimise exposure to vapour.

8.2.2 Personal protection

Eye protection: If eye-protection is not integral to the respirator being worn, wear

goggles or safety glasses with side shields giving complete

protection to eyes (EN 166).

Skin protection:

Hand protection: Chemical-resistant gloves conforming (EN 374). Butyl rubber,

natural rubber or neoprene gloves are recommended. Contact glove supplier to confirm suitable glove material, thickness and

breakthrough times.

Other: Long sleeve protective clothing.

Respiratory protection: If case of insufficient ventilation, wear a respirator (EN 140) with a

P3 particle filter or better (EN 143).

Thermal hazards: Not applicable.

8.2.3 Environmental exposure controls

Inform environmental manager of all incidents involving this product.

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SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid.

Odour: Characteristic. Odour threshold: Not available. Not available. pH: **Melting/freezing point:** Not available. Initial boiling point and boiling range: Not available. Flash point: Not available. Not available. **Evaporation rate:** Flammability (solid; gas): Not available. **Upper/lower flammability or explosive limits:** Not available. Vapour pressure: Not available. Vapour density: Not available.

Relative density:

Not available.

Solubility(ies): Soluble in water.

Amylase, α-: 1-100 g/L

Partition coefficient: n-octanol/water: Not available.

Amylase, α -: Log Pow \leq -2.95 (21°C)

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Not available.

Not available.

Not applicable.

Explosive properties:

Oxidising properties:

Not oxidising.

9.2 Other information

None known.

SECTION 10: Stability and Reactivity

10.1 Reactivity Reacts with oxidising agents.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions No hazardous reactions expected during normal use.

10.4 Conditions to avoid Avoid extreme temperatures. Storage in a refrigerator will prolong

useful life. Recommended storage temperature: 0 - 25°C. Protect

from direct sunlight.

10.5 Incompatible materials Strong oxidising agents.

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10.6 Hazardous decomposition products

Combustion may liberate toxic fumes: Carbon monoxide, carbon dioxide, nitrogen oxides, sulphur oxides.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity Not classified. May cause discomfort if swallowed.

No data are available for the mixture. The following data are for the

ingredients:

Amylase, α-:

 LD_0 (oral/rat): > 1911 mg/kg

LC₅₀ (inhalation/rat/4 h): > 4.96 mg/L air (analytical)

Skin corrosion/irritation May cause slight skin irritation.

Serious eye damage/irritation May cause slight eye irritation.

Skin sensitisation Not classified. The product does not contain substances classified

as skin sensitisers above the classification thresholds.

Respiratory sensitisation May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Germ cell mutagenicity Not classified. The product does not contain substances classified

as mutagenic above the classification thresholds.

Carcinogenicity Not classified. The product does not contain substances classified

as carcinogenic above the classification thresholds.

Reproductive toxicity Not classified. The product does not contain substances classified

as toxic to reproduction above the classification thresholds.

Specific Target Organ Toxicity -

single exposure

Not classified. The product does not contain substances classified for specific target organ toxicity following a single exposure above

the classification thresholds.

Specific Target Organ Toxicity -

repeated exposure

Not classified. The product does not contain substances classified for specific target organ toxicity following repeated exposure above

the classification thresholds.

Aspiration hazard Not classified. Based on available data, the classification criteria are

not met.

Information on likely routes of exposure

Inhalation May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Skin contact May cause slight skin irritation.

Eye contact May cause slight eye irritation.

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Ingestion May cause gastrointestinal irritation.

Symptoms related to the physical, chemical and Inhalation may cause allergy or asthma symptoms or breathing **toxicological characteristics** difficulties if inhaled. Shortness of breath, wheezing and coughing.

difficulties if inhaled. Shortness of breath, wheezing and coughing. The effect of inhalation may be delayed. Skin contact may cause slight irritation. Eye contact may cause slight irritation and redness.

Ingestion may cause gastrointestinal irritation.

Mixture versus substance Information No data available.

Other information None.

SECTION 12: Ecological Information

12.1 Toxicity Not classified.

No data are available for the mixture. The following data are for the

ingredients:

Amylase, α-:

NOEC (Oncorhynchus mykiss): 58.3 mg/L active enzyme protein,

96h

EC₅₀ (*Daphnia magna*): 212 mg/L active enzyme protein, 48 h NOEC (*Daphnia magna*): 106 mg/L active enzyme protein, 48 h EbC₅₀ (*Desmodesmus subspicatus*): 2.5 mg/L active enzyme

protein, 72 h

ErC₅₀ (Desmodesmus subspicatus): 5.2 mg/L active enzyme protein,

72 h

NOEC (Desmodesmus subspicatus): 1.3 mg/L active enzyme

protein, 72 h (biomass)

NOEC (Desmodesmus subspicatus): 2.6 mg/L active enzyme

protein, 72 h (growth rate)

12.2 Persistence and degradability Amylase, α-:

Readily biodegradable.

12.3 Bioaccumulative potential No potential to bioaccumulate.

12.4 Mobility in soil No data available.

12.5 Results of PBT and vPvB The product does not contain substances assessed to be PBT or

vPvB.

12.6 Other adverse effects None known.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

assessment

To be disposed of as hazardous waste. Disposal should be in accordance with local, state or national legislation.

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SECTION 14: Transport Information

ADR		
14.1	UN Number	Not classified.
14.2	UN Proper shipping name	
14.3	Transport hazard class(es)	- 1 -57
14.4	Packing group	- 1 57
14.5	Environmental hazards	-
14.6	Special precautions for the user	-J ~T
ADN		
14.1	UN Number	Not classified.
14.2	UN Proper shipping name	- 1 7 1
14.3	Transport hazard class(es)	طاء است
14.4	Packing group	71 /
14.5	Environmental hazards	4 17/
14.6	Special precautions for the user	1 6-(
RID		
14.1	UN Number	Not classified.
14.2	UN Proper shipping name	
14.3	Transport hazard class(es)	
14.4	Packing group	
14.5	Environmental hazards	<u>-</u>
14.6	Special precautions for the user	
IATA/IC	CAO	

UN Number

14.2	UN Proper shipping name	JES/
14.3	Transport hazard class(es)	
14.4	Packing group	
14.5	Environmental hazards	
14.6	Special precautions for the user	-

IMDG

14.1	UN Number	Not classified.
14.2	UN Proper shipping name	-
14.3	Transport hazard class(es)	
14.4	Packing group	
14.5	Environmental hazards	
14.6	Special precautions for the user	-
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	The product is not intended to be transported in bulk.

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Not classified.

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SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006 as amended. The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC.

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other Information

Full text of relevant R-phrases and/or H-statements:

Hazard Statement(s): H334: May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Supplemental Hazard

information (EU):

None.

Risk phrase(s): R42: May cause sensitisation by inhalation.

Abbreviations:

CAS: Chemical Abstracts Service;
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level

EINECS: European Inventory of Existing Commercial Chemical Substances

EC₅₀: Effective Concentration 50% EL₅₀: Effective Loading rate 50%

EbC₅₀: Concentration at which 50% reduction in biomass is observed ErC₅₀: Concentration at which 50% reduction in growth rate is observed

IC₅₀: Inhibitory Concentration 50% LC₅₀: Lethal Concentration 50%

LD₅₀: Lethal Dose 50%

LL₅₀: Lethal Loading rate 50%
 LCLo: Lowest lethal concentration
 LOEL: Lowest Observed Effect Level
 NOEC: No Observed Effect Concentration

NOEL: No Observed Effect Level

PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration

vPvB: Very Persistent and Very Bioaccumulative

References:

Supplier's Safety Data Sheets for ingredients ECHA disseminated REACH dossiers

ECHA Classification & Labelling Inventory

Approved Classification and Labelling Guide (Sixth edition)

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP)

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Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP)

Disclaimer:

THE INFORMATION PRESENTED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM, IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

Version history:

 SDS Number:
 906007

 Version:
 1.0

Issue date: 21/01/2014

Previous Version: -

Issue date of previous version:

Sections changed from previous version:

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Sodium Carbonate / Soda Ash 025306

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 **Product identifier**

> Sodium Carbonate / Soda Ash Product name:

Product number: 025306 SDS number: 905067

CAS No.: EC No.: Index No.:

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s): Laboratory chemicals. Manufacture of substances.

Uses advised against: Follow supplier's recommendations on correct use of the product.

1.3 Details of the supplier of the safety data sheet

> Supplier: Philip Harris Manufacturing Limited.

> > Unit 72, Gazelle Road Weston Industrial Estate Weston-super-Mare

BS24 9BJ

Telephone: +44 (0)1934 413 606

Fax: +44 (0)1934 626 421

E-mail: sdsinfo@philipharrismanufacturing.co.uk

1.4 **Emergency telephone number**

> In case of emergency, call: +44 (0)1934 413 606 (Mon - Fri, 08:30 - 17:00 UK time)

SECTION 2: Hazard Identification

- 2.1 Classification of the substance or mixture
 - 2.1.1. Classification according to Regulation (EC) No. 1272/2008 (CLP)

Eye irritation (Category 2), H319

2.1.2. Classification according to Directive 67/548/EEC & Directive 1999/45/EC

Xi Irritant R36

- 2.2 Label elements
 - 2.2.1. Label according to Regulation (EC) No. 1272/2008 (CLP)

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Hazard pictogram(s):



Signal Word: Warning

Hazard Statement(s): H319 Causes serious eye irritation.

Precautionary Statement(s): P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Supplemental Hazard information (EU):

None

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification (Regulation (EC) No. 1272/2008 (CLP))	Classification (Directive 67/548/EEC)
Soda Ash	105.99 g/mol	497-19-8	207-838-8	011-005-00-2	Eye Irrit. 2; H319	Xi, R36
Formula:CNa2O3	-					
- 10					1 4	AN .

See Section 16 for full description of R phrases and H statements.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

INHALATION: Remove person to fresh air and keep comfortable for breathing. Keep warm and at rest. If

irritation persists or if you feel unwell, obtain immediate medical attention.

SKIN CONTACT: Take off immediately all contaminated clothing. Rinse skin with soap and plenty of water.

Obtain immediate medical attention. Contaminated clothing should be washed before

reuse.

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EYE CONTACT: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present

and easy to do. Continue rinsing, making sure to rinse under eyelids. Obtain immediate

medical attention.

INGESTION: Do not induce vomiting. Provided the patient is conscious, rinse mouth out with water and

give 200-300 mL of water to drink. Never give anything by mouth to an unconscious

person. Obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed: 4.2

The most important known symptoms and effects are described in the labelling (see section 2.2) and / or in section 11.

4.3 Indication of any immediate medical attention and special treatments needed:

In case of accident or if you feel unwell, seek medical advice immediately. If breathing is laboured, oxygen should be administered by qualified personnel.

SECTION 5: Fire-fighting Measures

5.1 **Extinguishing Media**

Suitable extinguishing media: Water spray, CO₂, sand, dry powder.

Unsuitable extinguishing media: Do not use water jet.

Special hazards arising from the substance or mixture 5.2

Carbon oxides, Sodium oxides.

5.3 Advice for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Eliminate sources of ignition. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours/spray. Wear suitable personal protective equipment. Wear appropriate respirator when ventilation is inadequate (See Section 8).

6.1.2 For emergency responders

Keep unnecessary personnel away. Wear suitable protective clothing (See Section 8). Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

6.2 **Environmental precautions**

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

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6.3 Methods and materials for containment and clearing up

6.3.1 For containment

Stop the leak if it is safe to do so. Contain the spillage with sand, earth or any suitable adsorbent material.

6.3.2 For cleaning up

Pick up and arrange disposal without creating dust. Sweep and shovel. Keep in suitable, closed container for disposal according to Section 13.

6.3.3 Other advice

For disposal according to Section 13.

6.4 Reference to other sections

See Section 8 for personal protective equipment. See Section 13 for waste disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure Controls/Personal Protection

8.1 **Control parameters**

Workplace exposure limits

Contains no substance with occupational exposure limit values.

Substance	CAS No.	LTEL (8 hr TWA)		STEL (15 min)		Comments
Substance	CAS NO.	ppm	mg/m³	ppm	mg/m³	Comments
44.00						

8.2 **Exposure controls**

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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8.2.2 Personal protection

Eye protection: Tightly fitting safety goggles. Face shield (8" minimum). Use

equipment for eye protection tested and approved under appropriate

government standards such as NIOSH (US) or EN 166 (EU

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use

proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws

and good laboratory practices. Wash and dry hands

Hand protection: The selected protective gloves have to satisfy the specification of

EU Directive 89/686/EEC and the standard EN 374 derived from it.

Other: Long sleeve protective clothing

Respiratory protection: Where risk assessment shows air-purifying respirators are

appropriate use a full-face respirator with multi-purpose combination. (US) or type ABEK (EN 14387) respirator cartridges as backup to engineering controls. If the respirator is the sole master means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate

government standards such as NIOSH (US) or CEN (EU)

Thermal hazards: . Not applicable

8.2.3 Environmental exposure controls

Inform environmental manager of all incidents involving this product.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Form: Powder, Colour: White

Odour:

No data available

Solid g C – lit.

No data available

No data available

Flash point:

No data available

No data available

No data available

No data available

Flammability (solid; gas):

Upper/lower flammability or explosive limits:

No data available

2.532 g/cm3

Solubility(ies): 106 g/l @ 20 deg C – completely soluble.

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

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Decomposition temperature:No data availableViscosity:No data availableExplosive properties:No data availableOxidising properties:No data available

9.2 Other information

None known.

SECTION 10: Stability and Reactivity

10.1 Reactivity No data available

10.2 Chemical stability Hygroscopic, stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No data available

10.4 Conditions to avoid Exposure to moisture

10.5 Incompatible materials Strong acids

10.6 Hazardous decomposition products Other decomposition products – no data available. In the event of

fire: see section 5

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity LD50 Oral - rat - 4,090 mg/kg. LC50 Inhalation - rat - 2h - 5,750

mg/l

Skin corrosion/irritation Skin – rabbit, Result: Mild skin irritation – 24h

Serious eye damage/irritation Eyes – rabbit, Result eye irritation – 24 h

Skin sensitisation No data available

Respiratory sensitisation No data available

Germ cell mutagenicity No data available

Carcinogenicity IARC: No component of this product present at levels greater than

or equal to 0.1% is identified as probable, possible or conformed

human carcinogen by IARC.

Reproductive toxicity

Specific Target Organ Toxicity -

single exposure

Inhalation

Skin contact

No data available No data available

Specific Target Organ Toxicity -

repeated exposure

No data available

Aspiration hazard No data available

Information on likely routes of exposure RTECS: VZ4050000, Burning sensation, cough, wheezing,

laryngitis, shortness of breath, headache, nausea, vomiting May be harmful if inhaled. Causes respiratory tract irritation May be harmful if absorbed through skin. Causes skin irritation

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Eye contact May be harmful. Causes eye irritation

Ingestion Harmful if swallowed Symptoms related to the physical, chemical and No data available

toxicological characteristics

Mixture versus substance Information No data available

Other information No data available

SECTION 12: Ecological Information

12.1 Toxicity To fish LC50 – Lepomis macrochirus (Bluegill) – 300 mg/l – 96h

To Daphnia magna (Water flea) - 265mg/l - 48h

12.2 Persistence and degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No data available
 No data available

12.5 Results of PBT and vPvB PBT/vPvB assessment not available as chemical safety assessment

assessment not required / not conducted.

12.6 Other adverse effects No data available

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

SECTION 14: Transport Information

ADR		
14.1	UN Number	Not dangerous goods.
14.2	UN Proper shipping name	Not dangerous goods.
14.3	Transport hazard class(es)	Not dangerous goods.
14.4	Packing group	Not dangerous goods.
14.5	Environmental hazards	Not dangerous goods.
14.6	Special precautions for the user	No data available
ADN		
14.1	UN Number	Not dangerous goods.
14.2	UN Proper shipping name	Not dangerous goods.
14.3	Transport hazard class(es)	Not dangerous goods.
14.4	Packing group	Not dangerous goods.
14.5	Environmental hazards	Not dangerous goods.
14.6	Special precautions for the user	No data available
RID		
14.1	UN Number	Not dangerous goods.
14.2	UN Proper shipping name	Not dangerous goods.
14.3	Transport hazard class(es)	Not dangerous goods.
14.4	Packing group	Not dangerous goods.
14.5	Environmental hazards	Not dangerous goods.

Material number: 025306 SDS Number: 905067

Version: 2 Date: 17/01/2014

According to Regulation (EC) No. 1907/2006 (REACH)



14.6 S	pecial precautions for the user	Not dangerous goods.
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IATA/ICAO

14.1	UN Number	Not dangerous goods.
14.2	UN Proper shipping name	Not dangerous goods.
14.3	Transport hazard class(es)	Not dangerous goods.
14.4	Packing group	Not dangerous goods.
14.5	Environmental hazards	Not dangerous goods.
14.6	Special precautions for the user	No data available
IMDG		
14.1	UN Number	Not dangerous goods.
14.2	UN Proper shipping name	Not dangerous goods.
14.3	Transport hazard class(es)	Not dangerous goods.
14.4	Packing group	Not dangerous goods.
14.5	Environmental hazards	Not dangerous goods.
14.6	Special precautions for the user	No data available
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not dangerous goods.

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006 as amended. The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC.

15.2 Chemical Safety Assessment

A chemical safety assessment is not required and has not been carried out.

SECTION 16: Other Information

Full text of relevant R-phrases and/or H-statements:

Hazard Statement(s): Eye Irrit. Eye irritation

H319 Causes serious eye irritation

Supplemental Hazard information (EU):

No data available

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Risk phrase(s): Χi Irritant

R36 Irritating to eyes.

Abbreviations:

CAS: Chemical Abstracts Service:

EINECS: European Inventory of Existing Commercial Chemical Substances

EC₅₀: Effective Concentration 50% EL₅₀: Effective Loading rate 50% Inhibitory Concentration 50% IC₅₀: LC₅₀: Lethal Concentration 50%

LD₅₀: Lethal Dose 50%

Lethal Loading rate 50% LL₅₀: LCLo: Lowest lethal concentration LOEL: Lowest Observed Effect Level No Observed Effect Level NOEL:

PBT: Persistent, Bioaccumulative and Toxic. vPvB: Very Persistent and Very Bioaccumulative.

References:

Supplier's Safety Data Sheets for ingredients ECHA disseminated REACH dossiers ECHA Classification & Labelling Inventory

Approved Classification and Labelling Guide (Sixth edition)

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP)

Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP)

Disclaimer:

THE INFORMATION PRESENTED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM, IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

Version history:

Date: 17/01/2014

Version: 2.0

Issue date: 17/01/2014

Previous Version: 1.0

Issue date of previous version: 30/07/2007

Sections changed from previous version: ΑII

Material number: 025306 SDS Number: 905067 Version: 2

Sodium Carbonate / Soda Ash 025306

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According to Regulation (EC) No. 1907/2006 (REACH)



Potassium Dihydrogen Phosphate (V) 026069

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Potassium Dihydrogen Phosphate (V)

 Product number:
 026069

 SDS number:
 905068

 CAS No.:
 7778-77-0

EC No.: Index No.:

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s): Laboratory chemicals. Manufacture of substances.

Uses advised against: Follow supplier's recommendations on correct use of the product.

1.3 Details of the supplier of the safety data sheet

Supplier: Philip Harris Manufacturing Limited.

Unit 72, Gazelle Road Weston Industrial Estate Weston-super-Mare

BS24 9BJ

Telephone: +44 (0)1934 413 606

Fax: +44 (0)1934 626 421

E-mail: sdsinfo@philipharrismanufacturing.co.uk

1.4 Emergency telephone number

In case of emergency, call: +44 (0)1934 413 606 (Mon – Fri, 08:30 – 17:00 UK time)

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No. 1272/2008 (CLP)

Not a hazardous substance or mixture according to the above regulation.

2.1.2. Classification according to Directive 67/548/EEC & Directive 1999/45/EC

Not a hazardous substance or mixture according to the above regulations.

Material number: 026069 SDS Number: 905068

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According to Regulation (EC) No. 1907/2006 (REACH)



2.2 Label elements

2.2.1. Label according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictogram(s): This product does not need to be labelled in accordance with EC

directive, or respective national laws.

Signal Word: Warning

Hazard Statement(s): None

Precautionary Statement(s): None

Supplemental Hazard information (EU):

None

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification (Regulation (EC) No. 1272/2008 (CLP))	Classification (Directive 67/548/EEC)
Synonyms: Prim. Pottassium phosphate. Potassium dihydrogen phosphate. Monopotassium phosphate. Formula H2KO4P	136.09 g/mol;	7778-77-0	231-913-4		No component need to be disclosed according to the applicable regulations.	No component need to be disclosed according to the applicable regulations.

See Section 16 for full description of R phrases and H statements.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

INHALATION: Remove person to fresh air and keep comfortable for breathing. Keep warm and at rest. If

irritation persists or if you feel unwell, obtain immediate medical attention.

SKIN CONTACT: Wash off with soap and plenty of water. Consult a physician.

EYE CONTACT: Flush eyes with water as a precaution.

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INGESTION: Do not induce vomiting. Provided the patient is conscious, rinse mouth out with water and

give 200-300 mL of water to drink. Never give anything by mouth to an unconscious

person. Obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) And / or in section 11.

4.3 Indication of any immediate medical attention and special treatments needed:

In case of accident or if you feel unwell, seek medical advice immediately. If breathing is laboured, oxygen should be administered by qualified personnel.

SECTION 5: Fire-fighting Measures

5.1 **Extinguishing Media**

Suitable extinguishing media: Water spray, CO₂, sand, dry powder.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Oxides of phosphorus, Potassium oxides.

5.3 Advice for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures 6.1

For non-emergency personnel 6.1.1

Eliminate sources of ignition. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours/spray. Wear suitable personal protective equipment. Wear appropriate respirator when ventilation is inadequate (See Section 8).

6.1.2 For emergency responders

Keep unnecessary personnel away. Wear suitable protective clothing (See Section 8). Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

6.2 **Environmental precautions**

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

Methods and materials for containment and clearing up 6.3

6.3.1 For containment

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Stop the leak if it is safe to do so. Contain the spillage with sand, earth or any suitable adsorbent material.

6.3.2 For cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal according to Section 13.

For disposal according to Section 13.

6.3.3 Other advice

Do not let product enter drains.

Reference to other sections 6.4

See Section 8 for personal protective equipment. See Section 13 for waste disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure Controls/Personal Protection

8.1 **Control parameters**

Workplace exposure limits

Substance	CAS No	LTEL (8 hr TWA)		STEL (15 min)		Comments
Substance	CAS No.	ppm	mg/m³	ppm	mg/m³	Comments
Contains no substances with occupational exposure limit values.						

8.2 **Exposure controls**

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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Date: 17/01/2014

According to Regulation (EC) No. 1907/2006 (REACH)



8.2.2 Personal protection

Eye protection: Tightly fitting safety goggles. Face shield (8" minimum). Use

equipment for eye protection tested and approved under appropriate

government standards such as NIOSH (US) or EN 166 (EU

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use

proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws

and good laboratory practices. Wash and dry hands

Hand protection: The selected protective gloves have to satisfy the specification of

EU Directive 89/686/EEC and the standard EN 374 derived from it.

Other: Long sleeve protective clothing

Respiratory protection: Where risk assessment shows air-purifying respirators are

appropriate use a full-face respirator with multi-purpose combination. (US) or type ABEK (EN 14387) respirator cartridges as backup to engineering controls. If the respirator is the sole master means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate

government standards such as NIOSH (US) or CEN (EU)

Thermal hazards: . Not applicable

8.2.3 Environmental exposure controls

Inform environmental manager of all incidents involving this product.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Form: Crystalline, colour White

Odour:

Odour threshold:

No data available

No data available

No data available

No data available

Melting/freezing point: 252.6 deg C

Initial boiling point and boiling range:

Flash point:

Evaporation rate:

Flammability (solid; gas):

Upper/lower flammability or explosive limits:

Vapour pressure:

No data available

Relative density: 2.338 g/ml at 25 deg C

Solubility(ies):

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

No data available

No data available

Decomposition temperature:

Version: 2

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Material number: 026069 SDS Number: 905068

Potassium Dihydrogen Phosphate (V) 026069

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According to Regulation (EC) No. 1907/2006 (REACH)



Viscosity:

Explosive properties:

No data available

No data available

No data available

9.2 Other information

None known.

SECTION 10: Stability and Reactivity

10.1 Reactivity No data available

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No data available

10.4 Conditions to avoid Exposure to moisture

10.5 Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products Other decomposition products - No data available

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity LD50 Dermal – rabbit - > 4,640 mg/kg

Skin corrosion/irritation No data available

Serious eye damage/irritation No data available

Skin sensitisation No data available

Respiratory sensitisation No data available

Germ cell mutagenicity No data available

Carcinogenicity IARC: No component of this product present at levels greater than

or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC

Reproductive toxicity

Specific Target Organ Toxicity -

single exposure

No data available No data available

Toxicity – No data available

Specific Target Organ Toxicity -

repeated exposure

Aspiration hazard No data available

Information on likely routes of exposure

InhalationMay be harmful if inhaled. Causes respiratory tract irritationSkin contactMay be harmful if absorbed through skin. Causes skin irritation

Eye contact May be harmful. Causes eye irritation

Ingestion Harmful if swallowed

Material number: 026069 SDS Number: 905068 Version: 2 Potassium Dihydrogen Phosphate (V) 026069 Page 6 of 9

Version: 2 Potassium Dihydrogen Phosphate (V) 026069 Date: 17/01/2014

According to Regulation (EC) No. 1907/2006 (REACH)



Additional Information

RTECS: To the best of our knowledge, the chemical, physical, and Toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological Information

12.1 **Toxicity** No data available 12.2 Persistence and degradability No data available **Bioaccumulative potential** 12.3 No data available 12.4 Mobility in soil No data available

Results of PBT and vPvB 12.5 PBT/vPvB assessment not available as chemical safety assessment assessment

not required / not conducted.

12.6 Other adverse effects

ADR

14.4

14.5

14.6

Packing group

Material number: 026069

Environmental hazards

Special precautions for the user

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

To be disposed of as hazardous waste. Disposal should be in accordance with local, state or national legislation.

Not dangerous goods

Not dangerous goods

None

SECTION 14: Transport Information

14.1	UN Number	None
14.2	UN Proper shipping name	Not dangerous goods
14.3	Transport hazard class(es)	Not dangerous goods
14.4	Packing group	Not dangerous goods
14.5	Environmental hazards	None
14.6	Special precautions for the user	Not dangerous goods
ADN		
ADN		
14.1	UN Number	None
14.2	UN Proper shipping name	Not dangerous goods
14.3	Transport hazard class(es)	Not dangerous goods
14.4	Packing group	Not dangerous goods
14.5	Environmental hazards	None
14.6	Special precautions for the user	Not dangerous goods
RID		
14.1	UN Number	None
14.2	UN Proper shipping name	Not dangerous goods
14.3	Transport hazard class(es)	Not dangerous goods

Potassium Dihydrogen Phosphate (V) 026069 Version: 2 Date: 17/01/2014

SDS Number: 905068 Page 7 of 9

According to Regulation (EC) No. 1907/2006 (REACH)



IATA/ICAO

14.1	UN Number	None
14.2	UN Proper shipping name	Not dangerous goods
14.3	Transport hazard class(es)	Not dangerous goods
14.4	Packing group	Not dangerous goods
14.5	Environmental hazards	None
14.6	Special precautions for the user	Not dangerous goods
IMDG		
14.1	UN Number	None
14.2	UN Proper shipping name	Not dangerous goods
14.3	Transport hazard class(es)	Not dangerous goods
14.4	Packing group	Not dangerous goods
14.5	Environmental hazards	None
14.6	Special precautions for the user	Not dangerous goods
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not dangerous goods

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006 as amended. The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC.

15.2 **Chemical Safety Assessment**

A chemical safety assessment is not required and has not been carried out.

SECTION 16: Other Information

Full text of relevant R-phrases and/or H-statements:

Hazard Statement(s): None

Supplemental Hazard information (EU):

None

Material number: 026069 SDS Number: 905068 Version: 2 Page 8 of 9

Date: 17/01/2014

According to Regulation (EC) No. 1907/2006 (REACH)



Risk phrase(s): None

Abbreviations:

CAS: Chemical Abstracts Service:

EINECS: European Inventory of Existing Commercial Chemical Substances

EC₅₀: Effective Concentration 50% EL₅₀: Effective Loading rate 50% Inhibitory Concentration 50% IC₅₀: LC₅₀: Lethal Concentration 50%

Lethal Dose 50% LD₅₀:

Lethal Loading rate 50% LL₅₀: LCLo: Lowest lethal concentration LOEL: Lowest Observed Effect Level No Observed Effect Level NOEL:

PBT: Persistent, Bioaccumulative and Toxic. vPvB: Very Persistent and Very Bioaccumulative.

References:

Supplier's Safety Data Sheets for ingredients ECHA disseminated REACH dossiers ECHA Classification & Labelling Inventory

Approved Classification and Labelling Guide (Sixth edition)

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP)

Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP)

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Version history:

Version: 2.0

Issue date: 17/01/2014

Previous Version: 1.0

Issue date of previous version: 30/07/2007

Sections changed from previous version: ΑII

Material number: 026069 SDS Number: 905068 Version: 2

Potassium Dihydrogen Phosphate (V) 026069 Date: 17/01/2014

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 5.0 Revision Date 31.10.2012 Print Date 12.07.2017

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name

Potassium hydrogen phthalate

Product Number

: P1088

Brand

Sigma-Aldrich

CAS-No.

877-24-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

: Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company

Sigma-Aldrich Company Ltd.

The Old Brickyard

NEW ROAD, GILLINGHAM

Dorset SP8 4XT

UNITED KINGDOM

Telephone

+44 (0)1747 833000 +44 (0)1747 833313

Fax E-mail address

eurtechserv@sial.com

1.4 Emergency telephone number

Emergency Phone #

: +44 (0)870 8200418 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms

: KHP

Potassium biphthalate

Potassium phthalate monobasic Phthalic acidmonopotassium salt Potassium hydrogen phthalate

Formula

C₈H₅KO₄

Molecular Weight

204.22 g/mol

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Potassium oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Immersion protection Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: > 480 min

Material tested:Dermatril® (Aldrich Z677272, Size M)

Splash protection Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: > 30 min

Material tested:Dermatril® (Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance

Form: solid

b) Odour

no data available

c) Odour Threshold

no data available

	d)	рН	4
	e)	Melting point/freezing point	Melting point/range: 295 - 300 °C - dec.
	f)	Initial boiling point and boiling range	no data available
1	g)	Flash point	no data available
	h)	Evaporation rate	no data available
	i)	Flammability (solid, gas)	no data available
	j)	Upper/lower flammability or explosive limits	no data available
	k)	Vapour pressure	no data available
	l)	Vapour density	no data available
ı	m)	Relative density	1.640 g/cm3
	n)	Water solubility	soluble
(0)	Partition coefficient: n- octanol/water	no data available
1	p)	Autoignition temperature	no data available
(q)	Decomposition temperature	no data available
1	r)	Viscosity	no data available
,	s)	Explosive properties	no data available
t	t)	Oxidizing properties	no data available

Other safety information no data available

STABILITY AND REACTIVITY 10.

10.1 Reactivity

9.2

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available

11. **TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - rat - > 3,200 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Signs and Symptoms of Exposure

Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: CZ4326000

12. ECOLOGICAL INFORMATION

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods

IATA:

Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

no data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available

15.2 Chemical Safety Assessment

no data available

16. OTHER INFORMATION

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 4.2 Revision Date 03.09.2014 Print Date 01.05,2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Gram's iodine solution

Product Number : HT902 Brand : Sigma

REACH No. : A registration number is not available for this substance as the substance

or its uses are exempted from registration, the annual tonnage does not

require a registration or the registration is envisaged for a later

registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Company Ltd.

The Old Brickyard

NEW ROAD, GILLINGHAM

Dorset SP8 4XT

UNITED KINGDOM

Telephone : +44 (0)1747 833000 Fax : +44 (0)1747 833313 E-mail address : eurtechserv@sial.com

1.4 Emergency telephone number

Emergency Phone # : +44 (0)1747 833100

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Sigma - HT902

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Light sensitive. Air sensitive.

Storage class (TRGS 510): Non Combustible Liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

a) Appearance

9.1 Information on basic physical and chemical properties

Form: liquid

b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available

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I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence (Potassium iodide)

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Harmful to aquatic life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

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SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.



MATERIAL SAFETY DATA SHEET Disodium hydrogen orthophosphate dihydrate

Section 1 - Chemical Product and Company Identification

MSDS Name: Disodium hydrogen orthophosphate dihydrate

Catalog Numbers: S/4440/53, S/4440/60, S/4440/65, S/4440/71, S/4450/53, S/4450/60, S/4450/65, S/4450/68, S/4450/71, S/4450/PC70, S/4460/53, SP/0134, SP/0492, SP/0561

Synonyms:

Phosphoric acid, disodium salt, dihydrate; Dibasic sodium phosphate, dihydrate;

Disodium hydrogen phosphate, dihydrate.

Company Identification:

Fisher Scientific UK

Bishop Meadow Road, Loughborough

Leics. LE11 5RG

For information in Europe, call:

(01509) 231166

Emergency Number, Europe:

01509 231166

Section 2 - Composition, Information on Ingredients

CAS# Chemical Name: % EINECS# Hazard Symbols: Risk Phrases:

10028-24-7 Sodium phosphate, dibasic, dihydrate 100 unlisted

Text for R-phrases: see Section 16

Hazard Symbols: None listed **Risk Phrases:** None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Not available

Potential Health Effects

Eye: May cause eye irritation. **Skin:** May cause skin irritation.

Ingestion: May cause irritation of the digestive tract.
Inhalation: May cause respiratory tract irritation.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper

and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated

clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other

symptoms appear.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand,

MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing

Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and

inhalation. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels.

Exposure Limits

CAS# 7558-79-4:

CAS# 10028-24-7:

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: white

Odor: Not available

pH: Not available

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: Not available Autoignition Temperature: Not applicable

Flash Point: Not applicable.

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature: Not available

Solubility in water: Soluble in water.

Specific Gravity/Density: Not available.

Molecular Formula: Not applicable.

Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials Not available

Hazardous Decomposition ProductsIrritating and toxic fumes and gases.

Hazardous PolymerizationHas not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 7558-79-4: WC4500000

CAS# 10028-24-7: None listed

LD50/LC50: RTECS:

CAS# 7558-79-4: Draize test, rabbit, eye: 500 mg/24H Mild;

Draize test, rabbit, skin: 500 mg/24H Mild;

Oral, rat: LD50 = 17 gm/kg;

RTECS:

CAS# 10028-24-7:.

Carcinogenicity: Sodium phosphate, dibasic, anhydrous - Not listed as a carcinogen by ACGIH, IARC,

NTP, or CA Prop 65.

Sodium phosphate, dibasic, dihydrate - Not listed as a carcinogen by ACGIH, IARC,

NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority or advice. Empty containers must be decontaminated before returning for recycling.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated as a hazardous material	Not regulated as a hazardous material	Not regulated as a hazardous material
Hazard Class:			
UN Number:			
Packing Group:			

USA RQ: CAS# 7558-79-4: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases: Safety Phrases: WGK (Water Danger/Protection)

CAS# 7558-79-4: 1 CAS# 10028-24-7: 1

Canada

CAS# 7558-79-4 is listed on Canada's DSL List

US Federal

TSCA

CAS# 7558-79-4 is listed on the TSCA Inventory.

CAS# 10028-24-7 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form in on the Inventory (40CFR720.3(u)(2)).

Section 16 - Other Information

Text for R-phrases from Section 2

MSDS Creation Date: 12/12/1997 **Revision #3 Date** 10/03/2005

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