

Product 8263 A
 Revision Date 07/07/2016
 Revision 1



Safety Data Sheet (SDS)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name 8263 A
Synonyms, Trade Names No information available.

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified Uses No specific uses identified.
Uses Advised Against No uses advised against are identified.

1.3 Details of the Supplier of the Safety Data Sheet

Supplier Renishaw plc
 Brooms Road
 Stone Business Park
 Stone, Staffordshire
 ST15 0SH
 United Kingdom
 Tel: +44 (0) 1785 285000 (during UK office hours 09:00 to 17:00 UTC).
 msds@renishaw.com

Contact Person

1.4 Emergency Telephone Number

Emergency Telephone 999 / 911 or local emergency number.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification (EC 1272/2008)
 Physical and Chemical Hazards Not classified
 Human Health Not classified
 Environment Not classified

2.2 Label Elements

Contains Not applicable

Label in Accordance With (EC) No. 1272/2008 No pictogram required

Signal Word No Signal Word

Hazard Statements No hazard statements required

Precautionary Statements No precautionary statements required

2.3 Other Hazards

This product is not classified as hazardous. The information in this datasheet is given for guidance only.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product Identifier	GHS Classification	%
Propylidynetrimehanol, ethoxylated	CAS-No.: 50586-59-9 EC No.: 500-110-3		60-100%
tris(2-chloro-1-methylethyl) phosphate	CAS-No.: 13674-84-5 EC No.: 237-158-7	Acute Tox 4 - H302	10-30%

The Full Text for all Hazard Statements Are Displayed in Section 16.

Composition Comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Information	Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.
Inhalation	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention. Keep person warm and at rest.
Ingestion	If this product is ingested, remove victim immediately from source of exposure. Rinse mouth thoroughly. Do not induce vomiting. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention immediately! Never give anything by mouth to an unconscious person.
Skin Contact	Immediately wash with water, preferably under a shower, removing contaminated clothing while washing proceeds. Obtain medical attention if irritation persists or if blistering occurs. Contaminated clothing should be washed before re-use.
Eye Contact	Do not rub eye. If this product contacts the eyes, gently flush eyes with water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Avoid contaminating unaffected eye. Remove contact lenses if present and easy to do so. Seek medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

General Information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms noted.
Ingestion	No specific symptoms noted.
Skin Contact	No specific symptoms noted.
Eye Contact	May cause temporary eye irritation.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to the Physician	Treat symptomatically.
-------------------------------	------------------------

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials: Powder dry chemicals, carbon dioxide, foam spray.
Unsuitable Extinguishing Media	High volume water jet.

5.2 Special Hazards Arising From the Substance or Mixture

Hazardous Combustion Products	Fire may generate Irritating, toxic and corrosive gases.
Unusual Fire & Explosion Hazards	No unusual fire or explosion hazards noted.
Specific Hazards	If heated, harmful vapours may be formed. Floors may become slippery, avoid falls.

5.3 Advice for Firefighters

Special Fire Fighting Procedures	If possible, fight fire from protected position. Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Avoid breathing fire vapours. Containers close to fire should be removed immediately or cooled with water if safe to do so.
---	---

Protective Equipment for Firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Do not smoke, eat or drink while using this product. Eliminate all sources of ignition. Evacuate and ventilate area. Read and follow manufacturer's recommendations. Do not touch or walk through spilled material. Keep unnecessary and unprotected personnel from entering. Use non-sparking hand tools and explosion proof electrical equipment.

For Emergency Responders

Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental Precautions

Environmental Precautions

Do not allow ANY environmental contamination. Do not discharge onto the ground or into water courses.

6.3 Methods and Material for Containment and Cleaning Up

Spill Clean Up Methods

Stop leak if possible without risk. DO NOT touch spilled material! Wear necessary protective equipment. Ventilate and evacuate the area. Eliminate all sources of ignition. Wear respirator if ventilation is not adequate. Use non sparking tools or equipment for clean up. Absorb spillage with non-combustible, absorbent material - sand. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. In case of a large scale of spill, dyke area with sand to stop the spill spreading. Neutralize by dispersing neutralizing agent and absorb with sand. Wash work area with water.

6.4 Reference to Other Sections

Reference to Other Sections

See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Handling

Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Do not use contact lenses. Avoid contact with skin and eyes. Avoid inhalation of vapours. Avoid prolonged or repeated contact. Obtain special instructions before use. Provide good ventilation. Wear personal protective equipment. Handle and open container with care. Do not mix with other chemicals. Observe good industrial hygiene practices.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Precautions

Close container tightly and store in dry, cool and dark place away from direct sunlight. To seal an opened container: purge container with nitrogen gas or dry air and close tightly. Prohibit ignition sources close to storage area.

Storage Class

This product is used together with liquid B, so handle and store in same way for isocyanate. Store separately from acids, alkalies, oxidising agents and water. Chemical storage.

7.3 Specific End Use(s)

**Specific End Use(s)
Usage Description**

The identified uses for this product are detailed in Section 1.
Use only according to directions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Ingredient Comments No information available.

8.2 Exposure Controls

Protective Equipment



Engineering Measures

Facilities for handling this product should be closed system. Ensure surfaces and floors are made from non-permeable material. Provide adequate ventilation, including appropriate local extraction.

Respiratory Equipment

Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143, and suitable respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

Change filters frequently. Use respiratory protection as specified by an industrial hygienist or other qualified professional if concentrations exceed the limits listed in Section 8. Type A/organic vapour protective components recommended.

Hand Protection

Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. 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. Change gloves regularly. Suggested material: Nitrile/Chloroprene. Consult manufacturer for specific advice.

Eye Protection

Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact. Suggested PPE: Fire/chemical resistant full-length overalls with electrically conductive safety shoes or grounding straps. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by the specialist before handling this product.

Hygiene Measures

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work. Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed. Wash promptly if skin becomes wet or contaminated.

Process Conditions

Ensure that eye flushing systems and safety showers are located close by in the work place.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Appearance	Liquid.
Colour	Light yellow liquid.
Odour	Faint.
Odour Threshold - Lower	No information available.
Odour Threshold - Upper	No information available.
pH-Value, Conc. Solution	No information available.
pH-Value, Diluted Solution	No information available.
Melting Point	No information available.
Initial Boiling Point and Boiling Range	No information available.
Flash Point	206 °C

Evaporation Rate	No information available.
Flammability State	No information available.
Flammability Limit - Lower(%)	No information available.
Flammability Limit - Upper(%)	No information available.
Vapour Pressure	No information available.
Vapour Density (air=1)	No information available.
Relative Density	1.3g/cm ³ at 25 °C
Bulk Density	No information available.
Solubility	Soluble in alcohols, aromatic hydrocarbons, chlorinated hydrocarbons.
Decomposition Temperature	No information available.
Partition Coefficient; n-Octanol/Water	No information available.
Auto Ignition Temperature (°C)	No information available.
Viscosity	1000 mPas at 25 °C
Explosive Properties	No information available.
Oxidising Properties	No information available.

9.2 Other Information

Molecular Weight	No information available.
Volatile Organic Compound	No information available.
Other Information	None noted.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity	Reactive with isocyanates.
-------------------	----------------------------

10.2 Chemical Stability

Stability	Stable under normal temperature conditions and recommended use.
------------------	---

10.3 Possibility of Hazardous Reactions

Hazardous Reactions	Unknown.
Hazardous Polymerisation	Unknown.
Polymerisation Description	Unknown.

10.4 Conditions to Avoid

Conditions to Avoid	Avoid heat, flames and other sources of ignition. Avoid exposure to direct sunlight.
----------------------------	--

10.5 Incompatible Materials

Materials to Avoid	Store separately from acids, alkalies, and oxidising agents.
---------------------------	--

10.6 Hazardous Decomposition Products

Hazardous Decomposition Products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
---	--

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on Toxicological Effects**

Toxicological Information	No toxicological information for the overall finished product.
Acute Toxicity (Oral LD50)	Polyether polyol: Oral, rat LD50 >5000 mg/ kg.
Acute Toxicity (Dermal LD50)	No information available.
Acute Toxicity (Inhalation LD50)	No information available.
Serious Eye Damage/Irritation	May cause temporary eye irritation.
Skin Corrosion/Irritation	No information available.
Respiratory Sensitisation	No information available.
Skin Sensitisation	No information available.
Germ Cell Mutagenicity	
Genotoxicity - In Vitro	
Genotoxicity - In Vivo	
Carcinogenicity	No information available.
Specific Target Organ Toxicity - Single Exposure:	
STOT - Single Exposure	No information available.
Specific Target Organ Toxicity - Repeated Exposure:	
STOT - Repeated Exposure	No information available.
Inhalation	No specific symptoms noted.
Ingestion	No specific symptoms noted.
Skin Contact	No specific symptoms noted.
Eye Contact	May cause temporary eye irritation.
Waste Management	When handling waste, consideration should be made to the safety precautions applying to handling of the product. Dispose of as solid material after reacting with component B.
Routes of Entry	Unknown
Target Organs	No target organs specified.
Aspiration Hazards:	No information available.
Reproductive Toxicity:	No information available.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Ecotoxicity	No Ecological information on the finished product.
Eco Toxicological Information	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

12.2 Persistence and Degradability

Degradability	No information available.
Biological Oxygen Demand	No information available.
Chemical Oxygen Demand	No information available.

12.3 Bioaccumulative Potential

Bioaccumulative Potential	No data available on bioaccumulation.
Bioaccumulation Factor	
Partition Coefficient; n-Octanol/Water	No information available.

12.4 Mobility in Soil

Mobility	No information available.
-----------------	---------------------------

12.5 Results of PBT and vPvB Assessment

Results of PBT and vPvB Assessment No information available.

12.6 Other Adverse Effects

Other Adverse Effects No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Management When handling waste, consideration should be made to the safety precautions applying to handling of the product. Dispose of as solid material after reacting with component B.

13.1 Waste Treatment Methods

Disposal Methods Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

UN No. (ADR) Not applicable.
UN No. (IMDG) Not applicable.
UN No. (IATA) Not applicable.

14.2 UN Proper Shipping Name

ADR Proper Shipping Name Not applicable.
IMDG Proper Shipping Name Not applicable.
IATA Proper Shipping Name Not applicable.

14.3 Transport Hazard Class(es)

ADR Class Not applicable.
IMDG Class Not applicable.
IATA Class Not applicable.

Transport Labels Not applicable

14.4 Packing Group

ADR/RID/ADN Packing Group Not applicable.
IMDG Packing Group Not applicable.
IATA Packing Group Not applicable.

14.5 Environmental Hazards

ADR No
IMDG No
IATA No

14.6 Special Precautions for User

EMS Not applicable.
Emergency Action Code Not applicable.
Hazard No. (ADR) Not applicable.
Tunnel Restriction Code Not applicable.

14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

EU Legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.

Approved Code of Practice Workplace Exposure Limits Guidance Note EH40/2005.

Chemical Safety Assessment No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General Information This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.

Revision Comments This is a first issue.

Revision Date 07/07/2016

Revision 1

Safety Data Sheet Status Approved.

Hazard Statements In Full

H302 Harmful if swallowed.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.