

Safety Data Sheet

According to Regulation (EU) 2015/830

PRIMCOAT R4

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

1.1 Product identifier

Trade name: PRIMCOAT R4

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

 See Section 16

Application of the substance / the mixture Coating

1.3. Details of the supplier of the safety data sheet

Supplier

AXTER LTD, West Road, Ransomes Europark, Ipswich IP3 9SX UK

Tel: +44 (0) 1473 724056, 8.00 am to 5.30 pm, Monday to Friday

Email: info@axterltd.co.uk

1.4 Emergency telephone

+ 44 1473 724056 (NOT 24HRS - 8am - 5.30pm, Monday to Friday)

In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3	Flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation
Skin Sens.1	May cause an allergic skin reaction
Resp. Sens. 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Carc. 2	Suspected of causing cancer.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 Flammable



GHS08 Health Hazard

Signal word

Danger

Contains

4,4'-diphenylmethane diisocyanate
oligomers

Hazard statements

H226	Flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H351	Suspected of causing cancer

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition surfaces. - No smoking.
P261	Avoid breathing vapours.
P280	Wear protective gloves/ eye protection.
P284	[In case of inadequate ventilation] wear respiratory protection
P321	Specific treatment (see label)
P342+P311	If experiencing respiratory symptoms, contact doctor or poison centre
P370+P378	In case of fire, use correct extinguisher

EUH statements

EUH208 Contains	4,4' -diphenylmethane diisocyanate, o-(p-isocyanatobenzyl) phenylisocyanate. May produce an allergic reaction. Reserved for professional use only.
-----------------	--

2.3 Other hazards

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace and classified as PBT/vPvB, or included in the Candidate List:

Identifies	Name	Concentrate	(*) Classification – Regulation (EC) No 1272/2008	
			Classification	Specific Concentration Limit
Index No. 601-022-00-9 CAS No. 1330-20-7 EC No. 215-535-7 Reg No. 01-2119488216-32-XXXX	[1] xylene	10-50%	Acute Tox. 4*, H312; Acute Tox. 4*, H332; Flam. Liq. 3, H226; Skin Irrit. 2, H315	-
Index No. 607-195-00-7 CAS No. 108-65-6 EC No. 203-603-9 Reg No. 01-2119475791-29-XXXX	[1] 2-methoxy-1-methylethyl acetate	2.5-10%	Flam. Liq. 3, H226	-
Index No. 601-023-00-4 CAS No. 100-41-4 EC No. 202-849-4 Reg No. 01-2119489370-35-XXXX	1] ethylbenzene	1-10%	Acute Tox. 4*, H332; Asp. Tox. 1, H304; Flam. Liq. 2, H225; STOT RE 2, H373 (hearing organs)	-
CAS No. 25686-28-6 EC No. 500-040-3 Reg No. 01-2119457013-49	4,4'diphenylmethane diisocyanate, oligomers	1-10%	Acute Tox. 4, H332; Carc. 2, H351; Eye Irrit. 2, H319; Resp. Sens. 1, H334; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Skin Sens. 1, H317; STOT RE 2, H373; STOT SE 3, H335	-
Index No. 015-013-00-7 CAS No. 78-40-0 EC No. 201-114-5 Reg No. 01-2119492852-28-XXXX	triethyl phosphate	1-10%	Acute Tox. 4*, H302	-
Reg No. 01-2119457015-45	Reaction mass of 4,4'methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl) phenylisocyanate	0.1-1%	Carc. 2, H351; Eye Irrit. 2, H319; Resp. Sens. 1, H334; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT RE 2, H373; STOT SE 3, H335	-
Index No. 606-005-00-X CAS No. 108-83-8 EC No. 203-620-1 Reg No. 01-2119474441-41-XXXX	[1] 2,6-dimethyl-4-heptanone, diisobutylcetone	0-10%	Flam. Liq. 3, H226; STOT SE 3, H335	STOT SE 3, H335: C ≥ 10%

Index No. 607-251-00-0 CAS No. 70657-70-4 EC No. 274-724-2	2-methoxypropyle acetate	0-0.3%	Flam. Liq. 3, H226; Repro 1B, H360D ***; STOT SE 3, H335	-
Index No. 649-345-00-4 CAS No 8052-41-3 EC No. 232-489-3	1] Low boiling point naphtha - unspecified, standard solvent (refined petrol distillate, colourless, free from rancid or unpleasant odors and with a boiling point of approx. 148.8 °C to 204.4°C) (contains less than 0.1% of benzene)	0-1%	Asp. Tox. 1, H304; STOT RE 1, H372 (central nervous system)	-

(*) The complete text of the H phrases is given in Section 16.

*, *** See Regulation (EC) No. 1272/2008, Annex VI, section 1.2

[1] Substance with a community workplace exposure limit (see section 8.1)

Section 4: First aid measures

IRRITATING SOLUTION:

A repeated or prolonged contact with the skin or mucus can give irritation symptoms such as redness, blisters or dermatitis. Some symptoms may not appear immediately. Allergic skin reactions can also appear.

4.1 Description of first aid measures General information

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

After inhalation

In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep them quiet.
Seek medical treatment.

After skin contact

Remove contaminated clothing. Immediately wash with water and soap and rinse. Never use solvents or thinners.
If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.
It may cause an allergic reaction in the respiratory system. Chronic exposure can lead to asthma.
Prolonged exposure to fumes may cause numbing effects and require medical attention.

4.3 Indication of any immediate medical attention and special treatment need

In case of doubt or when symptoms of feeling unwell persist, get medical attention.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder. In case of more serious fires, also alcohol-resistant foam and water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Fire can cause thick, black smoke.

As a result of thermal decomposition, dangerous products can form: carbon monoxide (CO), carbon dioxide (CO₂).

Exposure to combustion or decomposition products can be harmful to your health.

Flammable vapours or gases may occur during fire.

5.3 Advice for firefighters:

Protective equipment

Wear fully protective suit.

Wear self-contained respiratory protective device.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not smoke. Avoid breathing in smoke. See also section 8 on personal protection.



Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment.

Keep unprotected persons away.

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in the case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up

Do not flush with water or aqueous cleansing agents

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Contaminated areas should be immediately cleaned with an appropriate decontaminator.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7: Handling and storage

7.1 Precautions for safe handling

Fumes are heavier than air and can spread across the ground. These can form explosive mixtures with air. Prevent fume concentrations above workplace exposure limits. Ensure good ventilation/exhaustion at the workplace.

The product must only be used in areas where all unprotected flames and other ignition points have been eliminated.

Cool down container when heated. Cool containers exposed to heat with water. Emergency cooling must be provided in the event of an ambient fire.

Product can be electrostatically charged. Use anti-static footwear and clothing. Floors must be conductors.

Do not eat, or smoke or drink in application area.

Avoid heat.

Do not refill residue into storage receptacles.

Never use pressure to empty the containers.

Keep product in original containers, away from heat sources.

7.2 Conditions for safe storage, including any incompatibilities: Storage

Store according to local legislation.

Observe any warnings on the label.

Store the containers between 5-35°C.

Store in a dry and well ventilated area.

Store away from heat or sunlight.

Keep away from ignition points.

Keep away from oxidizing agents and from highly acidic or alkaline materials.

Do not smoke.

Containers should be placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (Seveso III)

Code	Description	Qualifying quantity (tonnes) for the application	
		Lower tier requirements	Upper tier requirements
P5b	FLAMMABLE LIQUIDS	50	200

7.3 Specific end use(s) Not available

Section 8: Exposure controls/personal protection

8.1 Control parameters

Name	CAS No.	Country	Limit Value	ppm	mg/m ³
2-methoxy-1-methylethyl acetate	108-65-6	European Union [1]	Eight hours:	50 (skin)	275 (skin)
			Short Term:	100 (skin)	550 (skin)
ethylbenzene	100-41-4	European Union [1]	Eight hours:	100 (skin)	442 (skin)
			Short Term:	200 (skin)	884 (skin)
2,6-dimethyl-4-heptanone, diisobutylcetone	108-83-8	France [2]	Eight hours:	25	150
			Short Term:	-	-
2,6-methoxypropyle acetate	70657-70-4	Switzerland [3]	Eight hours:	5)	28
			Short Term:	-	224

Low boiling point naphtha - unspecified, standard solvent (refined petrol distillate, colourless, free from rancid or unpleasant odors and with a boiling point of approx. 148.8 °C to 204.4°C) (contains less than 0.1% of benzene)	8052-41-3	Belgium [4]	Eight hours:	100	553
			Short Term:	-	-

[1] According to both Binding Occupational Exposure Limits (BOELVs) and Indicative Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL)

[2] According to the list of Occupational Exposure Limit values to chemical agents in France adopted by the National Scientific Research Institute

[3] According to Limits in the Workplace, adopted for Swiss Accident Insurance Organization

[4] According to 'Valeurs Limites d'Exposition Professionnelle (VLEP)' or 'Grenswaarden voor Beroepsmatige Blootstelling (GWBB)', list adopted by Belgian Ministry of Employment and Labour. The product contains no substances with biological limit values. Concentration levels: **DNEL / DMEL**

Name	DNEL / DMEL	Type	Value
2-methoxy-1-methylethyl acetate CAS No 108-65-6 EC No 203-603-9	DNEL (workers)	Inhalation, long term, systemic effects	275 mg/m ³
		Dermal, long term, systemic effects	153.5 mg/kg bw/day
	DNEL (population)	Inhalation, long term, systemic effects	33 mg/m ³
		Dermal, long term, systemic effects	54.8 mg/kg bw/day
		Oral, long term, systemic effects	1.67 mg/kg bw/day
xylene (mixture of isomers) CAS No 1330-20-7 EC No. 215-535-7	DNEL (workers)	Inhalation, long term, systemic effects	77 mg/m ³
ethylbenzene CAS No. 100-41-4 EC No. 202-849-4	DNEL (workers)	Inhalation, long term, systemic effects	77 mg/m ³
triethyl phosphate CAS No. 78-40-0 EC No. 201-114-5	DNEL (workers)	Inhalation, long term, local effects	11.7 mg/m ³
		Inhalation, long term, systemic effects	11.7 mg/m ³
2,6-dimethyl-4-heptanone, diisobutylcetone	DNEL (workers)	Inhalation, long term, local effects	290 mg/m ³
		Inhalation, long term, systemic effects	479 mg/m ³

DNEL Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated

DMEL Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum

Name	Details	Value
2-methy-1-methylethyl acetate CAS No 108-65-6 EC No 203-603-9	Aqua (freshwater)	0.635 mg/L
	Aqua (marine water)	0.0635 mg/L
	Aqua (intermittent releases)	6.35 mg/L
	PNEC STP	100 mg/L
	Sediment (freshwater)	3.29 mg/kg sediment dw
	Sediment (marine water)	0.329 mg/kg sediment dw
	Soil	0.29 mg/kg soil dw

PNEC Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls

Concentration	100%
Uses	Coating
Breathing Protection	
PPE: Characteristics: CEN Standards: Maintenance: Filter Type:	Filter mask for protection against gases and particles. CE Marking, Category III. Sealed and watertight. EN136, EN140, EN405 Should not be stored at high temperatures or in damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves. Read the manufacturer's instructions carefully. Attach the necessary filters according to nature of risk. Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX A2
Hand Protection	
PPE: Characteristics: CEN Standards: Maintenance: Observations: Material: Breakthrough time: Material thickness:	Protective gloves for chemicals. CE Marking, Category III EN373-1, EN374-2, EN374-3, EN420 Keep in a dry place, away from any heat sources. Avoid sunlight as much as possible. Do not make changes to gloves that may alter their resistance. Do not apply paints, solvents or adhesives to the gloves. Gloves should fit the user well, not being too loose or too tight. Always use with clean and dry hands. PVC >480 minutes 0.35mm
Eye Protection	
PPE: Characteristics: CEN Standards: Maintenance: Observations:	Protective goggle with a built-in frame. CE Marking, Category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour. EN165, EN 166, EN167, EN168 Visibility through lenses should be ideal. Clean daily. Protectors should be disinfected periodically, following manufacturer's instructions. Signs of wear and tear include: yellowing lenses, superficial scratches of lenses, scraping etc.



Skin Protection

PPE:	Anti-static protective clothing. Antistatic safety footwear.
Characteristics:	CE Marking, Category II. Clothing should not be too tight or too loose in order to not obstruct user's movements.
CEN Standards:	EN340, EN1149-1, EN1149-2, EN1149-3, EN1149-5, EN ISO 13287, EN ISO 20344, EN ISO 20346
Maintenance:	Footwear should be checked regularly. Clothing should be washed and maintained according to manufacturer instructions.

**Section 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information:**

Appearance	Liquid with characteristic odour and colour
Colour:	Yellow
Odour:	Solvent
Odour threshold:	N/A
Smell threshold:	Not determined
pH-value:	N/A

Condition changing

Melting point:	Undetermined
Boiling point:	215 °C
Flash point:	36 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Flammable

Explosion limits

Lower:	Not determined
Upper:	N/A

Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	0.95 g/cm ³
Solvent content:	Organic solvents
Liposolubility:	soluble
Hydrosolubility:	Not soluble
Partition coefficient (n-octanol/water)	Not determined
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity	
Explosive properties:	Not determined
Oxidizing properties:	Not determined

9.2 Other information

Dropping Point:	Not determined
Blink:	Not determined
Kinematic viscosity:	Not determined

Section 10: Stability and reactivity

10.1 Reactivity	If the storage conditions are satisfied, does not produce dangerous reactions.
10.2 Chemical stability	Stable under the recommended handling and storage conditions.
10.3 Possibility of hazardous reactions	Inflammable liquid and vapour.
10.4 Conditions to avoid	High temperature, static discharge, contact with incompatible materials, heat, direct sunlight. Do not heat closed containers.
10.5 Incompatible materials	Avoid explosive, oxidizing and toxic materials.
10.6 Hazardous decomposition products:	In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

Section 11: Toxicological information

IRRITATING SOLUTION

A repeated or prolonged contact with the skin or mucus can give irritation symptoms such as redness, blisters or dermatitis. Some symptoms may not appear immediately. Allergic skin reactions can also appear.

11.1 Information on toxicological effects

Repeated or prolonged contact with the product can cause elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin. Exposure to concentrations of solvent fumes above the workplace exposure limit can have negative effects (irritation of the mucous membranes and respiratory system, adverse effects on the kidneys, liver and central nervous system). Among the symptoms are: headaches, vertigo, fatigue, muscular weakness, drowsiness, unconsciousness.

Based on the properties of isocyanates and taking into account existing technical data on similar products, it appears that this product may cause irritation and/or acute awareness of the respiratory system leading to an asthmatic condition, a wheezing and chest pressure. Sensitized individuals may show asthmatic symptoms when exposed to atmospheres containing concentrations below the level of exposure. Repeated exposure can lead to chronic respiratory diseases.

Name	Acute Toxicity:			
	Type	Test	Kind	Value
xylene (mixture of isomers) CAS No 1330-20-7 EC No. 215-535-7	Oral	LD50	Rat	4300 mg/kg bw [1]
	Dermal	LD50	Rat	>1700 mg/kg bw [2]
	Inhalation	LC50/4h	Rat	21.7 mg/l [2]

[1] AMA Archives of Industrial Health, Vol. 14, Pg. 387, 1956

[2] Raw Material Data Handbook, Vol. 1: Organic Solvents, 1974. Vol 1, Pg. 123, 1974

Primary irritant effect:**Acute Toxicity**

Not conclusive data for classification

Acute Toxicity Estimate (ATE):

Mixtures: ATE (Dermal): 4.173 mg/kg; ATE (Oral): 10.365 mg/kg

Skin corrosion/irritation

Skin Irrit. 2

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Resp. Sens. 1, Skin Sens. 1

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Carc. 2, may cause cancer

Reproductive toxicity

Not conclusive data for classification

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: Ecological information**12.1 Toxicity**

Name	Acute Toxicity:			
	Type	Test	Kind	Value
xylene (mixture of isomers) CAS No 1330-20-7 EC No. 215-535-7	Fish	LC50/96h	Fish	15.7 mg/l [1]
	Aquatic invertebrates	LD50/48hr	Crustacean	8.5 mg/l [2]
	Aquatic plants	-	-	-

[1] Bailey, H.C., D.H.W. Liu and H. A. Javitz 1985. *Time/Toxicity Relationships in Short-Term Static, Dynamic and Plug-Flow Bioassays*. In: R.C.Bahner and D.J.Hansen (Eds.), *Aquatic Toxicology and Hazard Assessment, 8th Symposium, ASTM STP 891, Philadelphia, PA: 193-212*

[2] Tatem, H.E., B.A. Cox and J.W. Anderson 1978. *The Toxicity of Oils and Petroleum Hydrocarbons to Estuarine Crustaceans*. *Estuar. Coast Mar.Sci.*6(4):365-373. Tatem, H.E. 1975. *The Toxicity and Physiological Effects of Oil and Petroleum Hydrocarbons on Estuarine Grass Shrimp Palaemonetes pugio (Holthuis)*. *Ph.D.Thesis, Texas A&M University, College Station, TX: 133p*

12.2 Persistence and degradability

No information is available regarding the biodegradability of the substances present. No information is available on the degradability of the substances present. No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential

No information is available regarding the bioaccumulation of the substances present.

12.4 Mobility in soil

No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

- 12.5 Results of PBT and vPvB assessment** No information is available about the results of PBT and vPvB assessment of the product.
- 12.6 Other adverse effects** No further relevant information available.


Section 13: Disposal considerations

13.1 Waste treatment methods

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008.98.EC regarding waste management.

Section 14: Transport information

- 14.1 UN-Number** UN1866
- 14.2 UN proper shipping name**
ADR 1866 RESIN SOLUTION, 3, PG III, (E)
IMDG, 1866 RESIN SOLUTION, 3, PG III (36oC)
IAGO, IATA 1866 RESIN SOLUTION, 3, PG III
- 14.3 Transport hazard class(es)**
Class 3
- 
- 14.4 Packing group** III
- 14.5 Environmental hazards:**
Marine pollutant No
- 14.6 Special precautions for user** F-E, S-E.
- Labels** 3
- Hazard No.** Not applicable
- ADR LQ** 5L
- IMDG LQ** 5L
- ICAO LQ** 10L

ADR bulk transport: bulk transport not authorised by ADR

Transport by boat - FEm - Urgency designation (F- fire, S - dispersions):

F-E,S-E - see point 6 for guidance

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
Product is not transported in bulk.

Section 15: Regulatory information

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC)

Product subcategory (Directive 2004/42/EC): I – one pack performance coatings, solvent-borne
Phase I* (from 01/01/2007): 750 g/l
Phase II* (from 01/01/2010): 750 g/l
(*) g/l ready to use

VOC Content (p/p): 40%
VOC Content: 393 g/l

The provisions of the Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

Product classification according to Annex I of Directive 2012/18/EU (Seveso II): P5b

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

15.2 Chemical safety assessment

No Chemical safety assessment has been carried out for this substance/mixture by the supplier.

Section 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if ingested
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

H351	May cause respiratory irritation
H360D	Can harm fetuses
H373	May cause damage to organs through prolonged or repeated exposure

Training hints

Instruction must take place including hazards and precautions before the start of employment and at least annually thereafter.

Classification codes:

Acute Tox. 4 (skin): acute toxicity, Category 4
 Acute Tox. 4 (inhalation), acute toxicity, Category 4
 Acute Tox. 4 (oral), acute toxicity, Category 4
 Asp. Tox.1 danger by aspiration, Category 1
 Carc. 2, carcinogenic, Category 2
 Eye Irrit. 2 eye irritation, Category 2
 Flam Liq 2 inflammable liquid, Category 2
 Flam Liq 3, inflammable liquid, Category 3
 Repr.1B, toxic reproduction, Category 1B
 Resp. Sens 1, irritating to skin, Category 1
 Skin Irrit. 2, irritating to skin, Category 2
 Skin Sens 1, causes skin sensitivity, Category 1
 Skin Sens 1B, causes skin sensitivity, Category 1B
 STOT RE 1: specific toxicity for certain organs affected by repeated use, Category 1
 STOT RE 2: specific toxicity for certain organs affected by repeated use, Category 2
 STOT RE 3: specific toxicity for certain organs affected by repeated use, Category 3

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 CEN: Comité Européen de normalisation
 DMEL: Derived Minimal Effect Level (level with minimum secondary effects).
 New exposure level corresponding to a low risk level, this risk to be considered as minimum tolerable.
 DNEL: Derived No-Effect Level (limits without secondary effects), level of exposure which should not lead to unforeseen unfavourable effects.
 EC50, average effective concentration.
 PPE, Personal protective equipment
 IATA International Air Transport Association
 OACI International oil travel organisation
 IMDG International Maritime Code for Dangerous Materials
 LC50 Lethal concentration, 50 percent
 LD50 Lethal dose, 5 percent
 PNEC Predicted No Effect Concentration, concentration of the substance below which no unfavourable effects to the environment are foreseen
 RID International regulation governing the transport of dangerous goods by rail

The information provided in this document is accurate to the best of our knowledge. The document does not constitute a specification and Axter takes no responsibility for the suitability of the product in a particular use. It is the user's responsibility to ensure that the product is suitable for the intended application and use and to take the necessary precautions to ensure that during handling, storage and installation of the product, all regulations to guarantee safety of people and the environment are observed. For further information or technical design assistance, contact Axter Ltd.

Sources:

www.echa.europa.eu
www.eur-lex.europa.eu/homepage.html
 Regulation UE 2015/830; CE 1907/2006; UE 1272/2008.