Safety Data Sheet

VERNIS SA
Primer

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

1.1 Product identifier

Product name VERNIS SA SPRAY PRIMER (CANISTER)
Product number VSA001

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

Application of the substance / the mixture Adhesive.
Recommended restrictions on use For industrial and professional use only.

1.3 Details of the supplier of the safety data sheet

Supplier:

Axter Ltd, Harbour Landing, Fox's Marina,
The Strand, Wherstead, Ipswich IP2 8NJ
Tel: +44 (0) 1473 724056
Email: info@axterltd.co.uk
Website: www.axter.co.uk

1.4 Emergency telephone:

Axter Ltd - +44 (0) 1473 724056
(this line is open from 8.00 am to 5.30 pm, Monday to Friday).
In the event of a medical enquiry involving this product, members of the public should contact:
NHS 111
a doctor or
a local hospital accident and emergency department.
The NPIS (National Poisons Information Service) helpline is available for enquiries from medical professionals only.
Tel: 0344 892 0111

Section 2: Hazards identification

2.1 Classification of the substance or mixture

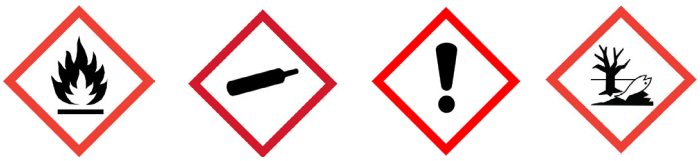
Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable gases, Category 1A	H220: Extremely flammable gas.
Gases under pressure, Liquefied gas	H280: Contains gas under pressure; may explode if heated.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms



Signal word Danger

Hazard statements

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements

EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary statements

Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.

Response

P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	In case of leakage, eliminate all ignition sources.
P391	Collect spillage.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.

Hazardous ingredients which must be listed on the label

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexaneethyl acetate.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT:

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

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	Not Assigned 926-605-8 01-2119486291-36-XXXX	Flam. Liq. 2; H225 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 30 - < 50
Ethyl acetate	141-78-6 205-500-4 607-022-00-5 01-2119475103-46-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
Zinc bis (dibenzyldithiocarbamate)	14726-36-4 238-778-0	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.25
Substances with a workplace exposure limit			
Dimethyl ether	115-10-6 204-065-8 603-019-00-8 01-2119472128-37-XXXX	Flam. Gas 1; H220 Press. Gas Compr. Gas; H280	>= 30 - < 50
Cyclohexane (as part of a UVCB)	110-82-7 203-806-2 601-017-00-1 01-2119463273-41-0000		>= 20 - < 30
N-hexane (as part of a UVCB)	110-54-3 203-777-6 601-037-00-0 01-2119480412-44-0000		>= 1 - < 10

For explanation of abbreviations see section 16.

Section 4: First aid measures

4.1. Description of first aid measures

General advice:

If on clothes, remove clothes.

Show this safety data sheet to the doctor in attendance.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Remove person to fresh air. If signs/symptoms continue, get medical attention.

If breathing has stopped, apply artificial respiration.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Call a physician if irritation develops or persists.

After eye contact

Flush eyes with water for at least 15 minutes.

Get medical attention if eye irritation develops or persists.

After swallowing:

Do NOT induce vomiting.

If accidentally swallowed obtain immediate medical attention.

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

Risks

May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment

No further relevant information available.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Water mist

Dry powder

Carbon dioxide (CO2)

Alcohol-resistant foam

Unsuitable extinguishing media

Do NOT use water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire fighting

May release toxic, irritating and/or corrosive gases.

In case of fire, the following substance(s) may occur:

Carbon monoxide.

5.3. Advice for firefighters

Special protective equipment for firefighters

Use personal protective equipment.

Further information

In the event of fire, wear self-contained breathing apparatus.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Remove all sources of ignition.

Use personal protective equipment.

Use breathing protection against the effects of fumes/dust/aerosol.

Evacuate personnel to safe areas.

Ensure adequate ventilation.

6.2. Environmental precautions

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Non-sparking tools should be used.
Ensure adequate ventilation.
Send for recovery or disposal in suitable containers.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8. For disposal considerations see section 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Local/ total ventilation

Use only with adequate ventilation.

Advice on safe handling

Avoid formation of dust and aerosols.
Take note of emission threshold.
Use solvent-proof equipment.
Ensure that suitable extractors are available on processing machines.
Handle with care.
Keep eye wash bottle available on working place.
Avoid release to the environment.
Keep out of reach of children.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.
Do not pierce or burn, even after use.
Do not spray on an open flame or other ignition source.
Do not spray on an open flame or any incandescent material.
Keep away from sources of ignition - No smoking.
Keep away from children.
Use only with adequate ventilation.

Advice on protection against fire and explosion

Keep product and empty container away from heat and sources of ignition.
Do not smoke.
Take measures to prevent the build up of electrostatic charge.
May form explosive mixtures in air.
Highly volatile, flammable constituents are released during processing
In the event of fire and/or explosion do not breathe fumes.
Keep breathing equipment ready.
Have fire extinguishing equipment ready in case of nearby fire.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.

Do not pierce or burn, even after use.

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

Protect against light.

Further information on storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a cool place. Heat will increase pressure and may lead to the container exploding.

Advice on common storage

Do not store together with oxidizing and self-igniting products.

7.3. Specific end use(s)

No further relevant information available.

Section 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Dimethyl ether	115-10-6	STEL	500 ppm 958 mg/m³	GB EH40
		TWA	400 ppm 766 mg/m³	GB EH40
		TWA	1.000 ppm 1.920 mg/m³	2000/39/EC
	Further information: Indicative			
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	Not Assigned	TWA (Vapour)	115 ppm 400 mg/m³	Assessment is based on supplier information
Cyclohexane (as part of a UVCB)	110-82-7	TWA	200 ppm 700 mg/m³	2006/15/EC
	Further information: Indicative			
		TWA	100 ppm 350 mg/m³	GB EH40
		STEL	300 ppm 1.050 mg/m³	GB EH40
		TWA	200 ppm 700 mg/m³	2006/15/EC
	Further information: Indicative			

Ethyl acetate	141-78-6	STEL	400 ppm 1.468 mg/m³	GB EH40
		TWA	200 ppm 734 mg/m³	GB EH40
		STEL	400 ppm 1.468 mg/m³	2017/164/EU
	Further information: Indicative			
		TWA	200 ppm 734 mg/m³	2017/164/EU
	Further information: Indicative			
N-hexane (as part of a UVCB)	110-54-3	TWA	20 ppm 72 mg/m³	2006/15/EC
	Further information: Indicative			
		TWA	20 ppm 72 mg/m³	GB EH40
		TWA	20 ppm 72 mg/m³	2006/15/EC
	Further information: Indicative			

Derived No Effect Level (DNEL):

Substance name	End use	Routes of exposure	Potential health effects	Value
Dimethyl ether	Workers	Inhalation	Systemic, long-term	1894 mg/m³
	Workers	Eye contact	Local effects	
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	Workers	Skin contact	Long-term systemic effects	13964 mg/kg
	Workers	Inhalation	Long-term systemic effects	5306 mg/m³
Ethyl acetate	Workers	Eye contact	Local effects	
	Workers	Inhalation	Systemic, short-term	1468 mg/m³
	Workers	Inhalation	Systemic, long-term	734 mg/m³
	Workers	Inhalation	Local, short-term	1468 mg/m³
	Workers	Inhalation	Local, long-term	734 mg/m³
	Workers	Dermal	Systemic, long-term	63 mg/kg

Resin acids and Rosin acids, esters with glycerol	Workers	Inhalation	Local, long-term	10 mg/m^3
	Workers	Dermal	Systemic, long-term	5 mg/kg
	Workers	Eye contact	Local effects	
Zinc bis (dibenzyldithiocarbamate)	Workers	Dermal	Systemic, long-term	1000 mg/kg
	Workers	Inhalation	Systemic, long-term	7 mg/m^3
	Workers	Eye contact	Local effect	

Predicted No Effect Concentration (PNEC):		
Substance name	**Environment compartment**	**Value**
Dimethyl ether	Soil	0.045 mg/kg
	Sea sediment	0.069 mg/kg
	Sea water	0.016 mg/l
	Sewage treatment plant	160 mg/l
	Fresh water	0.155 mg/l
	Fresh water sediment	0.681 mg/kg
Ethyl acetate	Soil	0.148 mg/kg
	Predator	0.2 g/kg
	Fresh water sediment	1.15 mg/kg
	Fresh water	0.24 mg/l
	Sewage treatment plant	650 mg/l
	Sea water	0.024 mg/
	Sea sediment	0.115 mg/kg

Resin acids and Rosin acids, esters with glycerol	Soil	462.06 mg/kg
	Fresh water sediment	2317.75 mg/kg
	Sea sediment	231.78 mg/kg
	Sea water	0.01 mg/l
	Sewage treatment plant	2.525 mg/l
	Fresh water	0.1 mg/l
Zinc bis (dibenzyldithiocarbamate)	Predator	4.56 mg/kg
	Sewage treatment plant	100 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Please take care on national and local requirements

Eye/face protection

Tightly fitting safety goggles or equipment with better protection.

Hand protection

Material of gloves

Nitrile rubber or equipment with better protection.

Remarks

Direct contact with the product must be avoided by organizational measures.

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

Penetration time of glove material

The gloves need to be disposed after the penetration time and replaced by new ones.

Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

Gloves made of the following materials are suitable for permanent contact

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Alphatec®/Barrier 02-100 PE-underglove from Ansell or other suppliers (penetration time: 480 min).

Gloves made of the following materials are suitable for contact of a maximum of 15 minutes

Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

Gloves made of the following materials are suitable as protection from splashes

Nitrile (minimum thickness 0.12 mm), disposable gloves with long cuffs.

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

Other skin and body protection

Protective clothing.

Respiratory protection

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus.

In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Ensure that suitable extractors are available on processing machines.

Filter type

Combined particulates and organic vapour type or equipment with better protection (A-P).

Protective measures

Keep away from food, drink and animal feed.

Instantly remove any soiled and impregnated garments.

Wash hands before breaks and immediately after handling the product.

Avoid contact with the eyes and skin.

Store protective clothing separately.

Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Compressed liquefied gas.
Colour	Black.
Odour	Ether-like.
Odour threshold	Not determined.
pH	Not determined.
Melting point/freezing point	Not determined.
Flash point	-41°C
Evaporation rate	Not determined.
Upper explosion limit/ Upper flammability limit	27 % (V)
Lower explosion limit/ Lower flammability limit	3 % (V)
Relative vapour density	Not determined.
Density	1.10 g/cm^3 (20 °C)
Solubility(ies)	
Water solubility	Not miscible or difficult to mix
Partition coefficient n-octanol/water	No data available.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not applicable.
Explosive properties	Product is not explosive. However, formation of explosive vapour/air mixtures is possible.

9.2. Other information

No data available.

Section 10: Stability and reactivity

10.1. Reactivity
No further relevant information available.

10.2. Chemical stability
No decomposition if used according to the specifications.

10.3. Possibility of hazardous reactions
Hazardous reactions
Develops readily flammable vapours/fumes.

10.4. Conditions to avoid
Heat may lead to dangerous pressure build-up in sealed container.

10.5. Incompatible materials
Materials to avoid
No further relevant information available.

10.6. Hazardous decomposition products
No decomposition if stored and applied as directed.

Section 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.

Components		
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:		
Acute oral toxicity	LD50	> 3.350 mg/kg (rat)
Acute inhalation toxicity	LC50 / 4h	> 20 mg/l (rat)
Acute dermal toxicity	LD50	> 2.000 mg/kg (rabbit)
Ethyl acetate		
Acute oral toxicity	LD50	5.620 mg/kg (rat)
Acute inhalation toxicity : Test atmosphere: Inhalation	LC50 / 4h	22.5 mg/l (rat)
Acute dermal toxicity	LD50	> 20.000 mg/kg (rabbit)

Skin corrosion/irritation
Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation
Skin sensitisation
Based on available data, the classification criteria are not met.

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

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

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

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

STOT - single exposure
May cause drowsiness or dizziness.

STOT - repeated exposure
Based on available data, the classification criteria are not met.

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

Section 12: Ecological Information

12.1. Toxicity

Components		
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:		
Toxicity to daphnia and other aquatic invertebrates	EC50 / 48h	3 mg/l (daphnia magna (water flea))
Ethyl acetate:		
Toxicity to fish	LC50 / 96h	220 - 250 mg/l (pimephales promelas (fathead minnow)) Method: flow-through test

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential

Components	
Ethyl acetate:	
Partition coefficient: n-octanol/water	Log Pow: > 0.66 - < 0.73 (25 °C) pH: 7 GLP: no
Dimethyl ether:	
Partition coefficient: n-octanol/water	Log Pow: 0.10

12.4. Mobility in soil
Do not allow product to reach ground water, water bodies or sewage system.

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
This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.

Section 13: Disposal considerations

13.1. Waste treatment methods

Recommendation

Do not dispose of with domestic refuse.
Do not dispose of waste into sewer.
Hand over to disposers of hazardous waste.
The generation of waste should be avoided or minimized wherever possible.
Incinerate under controlled conditions in accordance with all local and national laws and regulations.
Disposal must be made according to official regulations.

These EU waste code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances (according GHS) listed under section 3 of this safety data sheet is itself classified as dangerous (*).

Waste accruing during application

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Waste accruing during cleaning

08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances
08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11

Waste packaging

Recommendation

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

15 01 10* packaging containing residues of or contaminated by dangerous substances.

Contaminated packaging

Disposal must be made according to local official regulations.

Section 14: Transport information

14.1. UN number

ADN	UN 3501
ADR	UN 3501
RID	UN 3501
IMDG	UN 3501
IATA (Cargo)	UN 3501
IATA (Passenger)	UN 3501 Not permitted for transport

14.2. UN proper shipping name

ADN	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, HYDROCARBONS, C6-C7)
ADR	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, HYDROCARBONS, C6-C7)
RID	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, HYDROCARBONS, C6-C7)
IMDG	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, HYDROCARBONS, C6-C7)
IATA (Cargo)	Chemical under pressure, flammable, n.o.s. (Dimethyl ether, Hydrocarbons, C6-C7)
IATA (Passenger)	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. Not permitted for transport

14.3. Transport hazard class(es)

ADN	2
ADR	2
RID	2
IMDG	2.1
IATA (Cargo)	2.1
IATA (Passenger)	Not permitted for transport

14.4. Packing group

ADN

Packing group	Not assigned by regulation
Classification Code	8F
Hazard Identification Number	23
Labels	2.1

ADR

Packing group	Not assigned by regulation
Classification Code	8F
Hazard Identification Number	23
Labels	2.1
Tunnel restriction code	(B/D)

RID

Packing group	Not assigned by regulation
Classification Code	8F
Hazard Identification Number	23
Labels	2.1

IMDG

Packing group	Not assigned by regulation
Labels	2.1
EmS Code	F-D, S-U

IATA (Cargo)

Packing group (cargo aircraft)	218
Packaging group	Not assigned by regulation
Labels	Flammable Gas

IATA (Passenger) Not permitted for transport.

14.5. Environmental hazards

ADN

Environmentally hazardous Yes

ADR

Environmentally hazardous Yes

RID

Environmentally hazardous Yes

IMDG

Marine pollutant Yes

14.6. Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable for product as supplied.

Section 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:
Number on list 75ethyl acetate tris(nonylphenyl) phosphite.

REACH - Candidate List of Substances of Very High Concern for Authorization (SVHC,Article 59).

N-hexane (as part of a UVCB)

Regulation (EU) No 2024/590 on substances that deplete the ozone layer

Compliant.

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Compliant.

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Neither banned nor restricted.

RoHS: Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, Annex II

Compliant.

Council Regulation (EC) No 273/2004 on drug precursors

Compliant.

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Not applicable.

UK REACH List of substances subject to authorisation (Annex XIV)

Compliant.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P2:	FLAMMABLE GASES
18:	Liquefied flammable gases (including LPG) and natural gas
E2:	ENVIRONMENTAL HAZARDS

Volatile organic compounds

Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control).

Volatile organic compounds (VOC) content: 79.03 %

The ingredients of this product are reported in the following inventories:

EU REACH: On the inventory, or in compliance with the inventory

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this mixture.

Classification of the mixture:		Classification procedure:
Flam. Gas 1A	H220	Based on product data or assessment
Press. Gas Liquefied gas	H280	Based on product data or assessment
STOT SE 3	H336	Calculation method
Aquatic Chronic 2	H411	Calculation method

Section 16: Other information

The information given in this Safety Data Sheet is given in good faith and based on our current knowledge. We reserve the right to update and modify this document as necessary. The information in this sheet does not constitute a risk assessment for the workplace. While every effort is made to ensure that the information is accurate and up to date, it is not intended to form part of a contract or to imply any additional liability, which is expressly excluded.

Relevant phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Contact

www.axter.co.uk

Abbreviations and acronyms:

Aquatic Acute: Short-term (acute) aquatic hazard

Aquatic Chronic: Long-term (chronic) aquatic hazard

Asp. Tox.: Aspiration hazard

Eye Irrit.: Eye irritation

Flam. Gas: Flammable gases

Flam. Liq.:Flammable liquids

Press. Gas: Gases under pressure

STOT SE: Specific target organ toxicity - single exposure

2000/39/EC: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

2006/15/EC: Europe. Indicative occupational exposure limit values

2017/164/EU Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values

GB EH40: UK. EH40 WEL - Workplace Exposure Limits

2000/39/EC / TWA: Limit Value - eight hours

2006/15/EC / TWA: Limit Value - eight hours

2017/164/EU / STEL: Short term exposure limit

2017/164/EU / TWA: Limit Value - eight hours

GB EH40 / TWA: Long-term exposure limit (8-hour TWA reference period)

GB EH40 / STEL: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
AIIC - Australian Inventory of Industrial Chemicals
ASTM - American Society for the Testing of Materials
bw - Body weight
CLP - Classification Labelling Packaging Regulation. Regulation (EC) No 1272/2008
CMR - Carcinogen, Mutagen or Reproductive Toxicant
DIN - Standard of the German Institute for Standardization
DSL - Domestic Substances List (Canada)
ECHA - European Chemicals Agency; EC-Number - European Community number
ECx - Concentration associated with x% response
ELx - Loading rate associated with x% response
EmS - Emergency Schedule
ENCS - Existing and New Chemical Substances (Japan)
ErCx - Concentration associated with x% growth rate response
GHS - Globally Harmonized System
GLP - Good Laboratory Practice
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 - Half maximal inhibitory concentration
ICAO - International Civil Aviation Organization
IECSC - Inventory of Existing Chemical Substances in China;
IMDG - International Maritime Dangerous Goods
IMO - International Maritime Organization
ISHL - Industrial Safety and Health Law (Japan)
ISO - International Organization for Standardization
KECI - Korea Existing Chemicals Inventory
LC50 - Lethal Concentration to 50 % of a test population;
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL - International Convention for the Prevention of Pollution from Ships
n.o.s. - Not Otherwise Specified;
NO(A)EC - No Observed (Adverse) Effect Concentration
NO(A)EL - No Observed (Adverse) Effect Level
NOELR - No Observable Effect Loading Rate
NZIoC - New Zealand Inventory of Chemicals
OECD - Organization for Economic Co-operation and Development
OPPTS - Office of Chemical Safety and Pollution Prevention
PBT - Persistent, Bioaccumulative and Toxic substance
PICCS - Philippines Inventory of Chemicals and Chemical Substances
(Q)SAR - (Quantitative) Structure Activity Relationship

REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SADT - Self-Accelerating Decomposition Temperature
SDS - Safety Data Sheet;
SVHC - substance of very high concern
TCSI - Taiwan Chemical Substance Inventory
TECI - Thailand Existing Chemicals Inventory
TSCA - Toxic Substances Control Act (United States)
UN - United Nations
UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods
vPvB - Very Persistent and Very Bioaccumulative

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