

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Ardrox 6025 A

Version	Revision Date:	SDS Number:	Date of last issue: 03.07.2025
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Ardrox 6025 A

Product code : 000000000050836551

Unique Formula Identifier (UFI) : MKY8-U404-P00H-54QW

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

Use of the Sub-stance/Mixture : Detergent

Recommended restrictions : Uses other than recommended on use

1.3 Details of the supplier of the safety data sheet

Company:
Chemetall Ltd.
Napier House, Auckland Park
MK1 1BU Bletchley, Milton Keynes
Great Britain
+44 1908 649333
sds.global-chemetall@basf.com

Telephone: +44 1908 649333
E-mail address: sds.global-chemetall@basf.com

1.4 Emergency telephone

International emergency number:
Telephone: +49 180 2273-112

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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)

Skin irritation, Category 2
Eye irritation, Category 2
Skin sensitization, Category 1

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.

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 : Warning

Hazard Statements	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.

Precautionary Statements	:	Prevention:
	P261	Avoid breathing mist or vapors.
	P264	Wash skin thoroughly after handling.
	P280	Wear protective gloves/ eye protection/ face protection.
		Response:
	P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
	P337 + P313	If eye irritation persists: Get medical advice/ attention.
	P362 + P364	Take off contaminated clothing and wash it before reuse.

Hazardous ingredients which must be listed on the label:

Tall oil, sodium salt

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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.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : organic compounds
inorganic salts
organic solvent
Water

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., sodium salts	127184-52-5 UK-20-9702550300-0-0000	Acute Tox. 4; H302	>= 3 - < 5
Tall oil, sodium salt	65997-01-5 266-037-1 UK-20-9702550300-0-0000	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 2.5 - < 3
Sodium xylene sulphonate	1300-72-7 215-090-9 UK-20-9702550300-0-0000	Eye Irrit. 2; H319	>= 2.5 - < 3
2-butoxyethanol	111-76-2 203-905-0 603-014-00-0 UK-20-9702550300-0-0000 UK-20-0537843089-5-0000 UK-20-9642318150-0-0000	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 2 - < 2.5
Potassium silicate, 1,6 < MR <= 2,6	1312-76-1 215-199-1	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 2

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	01-2119456888-17		
Substances with a workplace exposure limit :			
dipropylene glycol monomethylether	34590-94-8 252-104-2 UK-20-9702550300-0-0000 UK-20-0537843089-5-0000 UK-20-9642318150-0-0000		$\geq 1 - < 2$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : Never give anything by mouth to an unconscious person.
Move out of dangerous area.
In all cases of doubt, or when symptoms persist, seek medical attention.
Immediately remove contaminated clothing.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
First aid personnel should pay attention to their own safety.
- If inhaled : If breathed in, move person into fresh air.
If breathing is irregular or stopped, administer artificial respiration.
If symptoms persist, call a physician.
- In case of skin contact : If symptoms persist, call a physician.
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Do NOT use solvents or thinners.
- In case of eye contact : If easy to do, remove contact lens, if worn.
Call a physician immediately.
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
- If swallowed : Rinse mouth.
Do NOT induce vomiting.
If symptoms persist, call a physician.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Risks	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: Treat symptomatically. No known specific antidote.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Water spray jet Dry powder Alcohol-resistant foam Carbon dioxide (CO ₂)
Unsuitable extinguishing media	: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting	: Hazardous decomposition products formed under fire conditions.
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5.3 Advice for firefighters

Special protective equipment for fire-fighters	: Appropriate breathing apparatus may be required.
Further information	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool containers/tanks with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid breathing vapours.
For non-emergency personnel:
Use personal protective equipment.
Ensure adequate ventilation, especially in confined areas.
Keep away from sources of ignition.
For emergency responders:
Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

6.2 Environmental precautions

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid subsoil penetration.
Do not allow uncontrolled discharge of product into the environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Ensure adequate ventilation.

6.4 Reference to other sections

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).
Do not return residues to the storage containers.
Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.
The workplace should be equipped with an emergency shower and eye-rinsing facility.
Avoid contact with the skin, eyes and clothing.
Handle in accordance with good industrial hygiene and safety practice.
Do not breathe vapors or spray mist.

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Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep away from heat. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing. Keep in a dry, cool and well-ventilated place.

Advice on common storage : Acids
Segregate from acids and acid forming substances. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Recommended storage temperature : > 0 °C

Packaging material : Suitable material: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethyleneterephthalate (PET), Polypropylene, Carbon steel (Iron), tinned carbon steel (Tinplate)

7.3 Specific end use(s)

Specific use(s) : Please refer to the technical leaflet for further information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-butoxyethanol	111-76-2	TWA	25 ppm 123 mg/m ³	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	50 ppm 246 mg/m ³	GB EH40
	Further information: Can be absorbed through the skin. The assigned sub-			

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	stances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	20 ppm 98 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	50 ppm 246 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
dipropylene glycol monomethylether	34590-94-8	TWA	50 ppm 308 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	50 ppm 308 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-butoxyethanol	111-76-2	butoxyacetic acid: 240 Millimoles per mole creatinine (Urine)	After shift	GB EH40 BAT

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation.

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles (splash goggles) (e.g. EN 166)
Hand protection

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. nitrile rubber (NBR) - 0.4 mm coating thickness butyl rubber gloves - material thickness: 0.5 mm Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1 The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin pro-

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Skin and body protection	: tection
Respiratory protection	: Chemical resistant protective clothing according to DIN EN 13034 (Type 6)
Filter type	: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
	: Organic vapor Type (A)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Color	: beige
Odor	: mild
Odor Threshold	: not determined
pH	: 12.0
Melting point/ range	: not determined
Boiling point/boiling range	: 100 °CMethod: calculated
Flash point	: > 99 °C Method: ISO 3679
Evaporation rate	: not determined
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: > 35 g/m3
Vapor pressure	: not determined (20 °C) not determined (50 °C)
Relative vapor density	: Lighter than air.
Relative density	: No data available
Density	: 1.055 g/cm3 (20 °C)
Solubility(ies)	
Water solubility	: not determined
Partition coefficient: n-octanol/water	: not applicable for mixtures

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Autoignition temperature	:	> 200.00 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity	:	
Viscosity, kinematic	:	5.0 mm ² /s (40 °C)
	:	6.0 mm ² /s (23 °C)
Flow time	:	< 30 s at 23 °C
	:	Cross section: 3 mm
	:	Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

9.2 Other information

Flammability (liquids)	:	Does not sustain combustion.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No hazardous reactions when stored and handled according to instructions.
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10.4 Conditions to avoid

Conditions to avoid	:	Avoid direct sunlight. Protect from frost. Heat.
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10.5 Incompatible materials

Materials to avoid : Acids

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.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Components:

2-butoxyethanol:

Acute oral toxicity : LD50 (guinea pig): 1,200 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Result : Severe skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result : Eye irritation

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

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Respiratory sensitization

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

Germ cell 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

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

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

No data available

12.2 Persistence and degradability

Product:

Biodegradability : Result: The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

Components:

Tall oil, sodium salt:

Partition coefficient: n-octanol/water : log Pow: 3.2 - 6
pH: 6
Method: OECD Test Guideline 117
GLP: yes

Sodium xylene sulphonate:

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Partition coefficient: n-octanol/water : log Pow: -1.1

2-butoxyethanol:

Partition coefficient: n-octanol/water : log Pow: 0.81 (25 °C)
GLP: no

Potassium silicate, 1,6 < MR <= 2,6:

Partition coefficient: n-octanol/water : Remarks: Not applicable

dipropylene glycol monomethylether:

Partition coefficient: n-octanol/water : log Pow: 0.004 (25 °C)
pH: 7.5 - 7.7
Method: OECD Test Guideline 107
GLP: yes

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

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

Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not discharge into drains/surface waters/groundwater.
Observe national and local legal requirements.

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SECTION 14: Transport information

14.1 UN number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA	:	Not regulated as a dangerous good

14.2 UN proper shipping name

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA	:	Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA	:	Not regulated as a dangerous good

14.4 Packing group

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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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

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (COMAH)	:	Not applicable
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 4.24 % Volatile organic compounds (VOC) content: 355.11 g/l VOC content excluding water
according to Detergents Regulation EC 648/2004	:	less than 5 %: Anionic surfactants, Non-ionic surfactants

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

Assessment of safe use has been performed for the mixture and the result is documented in section 7 and 8 of the SDS

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SECTION 16: Other information

Full text of other abbreviations

2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT	:	UK. Biological monitoring guidance values
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
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; AIIIC - 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 Standardisation; 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 Organisation 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, Authorisation 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

Further information

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Other information : For multi-pack systems observe material safety data sheets of all components.
Restricted to professional users.

Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317

Classification procedure:

Based on product data or assessment
Based on product data or assessment
Calculation method

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