

Det&Rinse Plus

Safety Data Sheet

according to Safe Work Australia and according to HSNO Regulations – NZ EPA
Date of issue: 05/01/2017 Revision date: 05/01/2017 Version: 2.0

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

1.1. Product identifier

Product form : Mixtures
Trade name : Det&Rinse Plus
Product code : DB1015A0

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

1.2.1. Relevant identified uses

Main use category : Detergents
Industrial/Professional use spec : Professional
Use of the substance/mixture : Oven cleaners

1.2.2. Uses advised against

Any use that is not described in this sheet and in the technical documentation is to be considered incorrect/not recommended

1.3. Details of the supplier of the safety data sheet

UNOX Australia Pty. Ltd.
7/100 New Street,
Ringwood, VIC. 3134
T +61 3 9876 0803
<http://www.unox.com/>

1.4. Emergency telephone number

Emergency number : +61 1800 686 951 (Australia)
+64 800 451 719 (New Zealand)
Access Code: 334577

Poison Information : 131 126 (Australian Poisons Information Centre)
0800 764 766 (New Zealand Poisons Information Centre)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Safe Work Australia : Work Health and Safety (WHS) Act and Regulation

Corrosive to metals, Category 1
Skin corrosion/irritation, Category 1A
Serious eye damage/eye irritation, Category 1

Classification according to NZ- EPA HSNO regulations

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.
8.1A - Substances that are corrosive to metals
8.2A - Substances that are corrosive to dermal tissue
8.3A - Substances that are corrosive to ocular tissue

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Hazard statement codes

H290 - May be corrosive to metals
H314 - Causes severe skin burns and eye damage

Precautionary statement codes – Prevention:

P234 - Keep only in original container
P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection

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Precautionary statement codes – Response:

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor
P390 - Absorb spillage to prevent material damage

Precautionary statement codes – Storage

P405 - Store locked up
P406 - Store in corrosive resistant container with a resistant inner liner

Precautionary statement codes – Disposal:

P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Cas No.	%
potassium hydroxide, caustic potash	1310-58-3	5 - 15
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	5 - 15
Dipropylene glycol monomethyl ether-	34590-94-8	5 - 15
Alcohols, C12-14, ethoxylated propoxylated	68439-51-0	1 - 4
Alclic ether of carboxylic acid	Not available	1 - 4
Other Ingredients not classified according to Hazardous substance regulations make up the product to 100 %		

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Self-protection of the first aider.
First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention immediately.
First-aid measures after skin contact : Immediately rinse with plenty of water (for at least 15 minutes). Remove contaminated clothing immediately and dispose of safely. Wash contaminated clothing before reuse. Seek medical attention immediately.
First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.
First-aid measures after ingestion : Immediately call a POISON CENTER (Ph: Australia 131 126; New Zealand 0800 764 766) or doctor/ physician. Never give anything by mouth to an unconscious person. Do not induce vomiting.

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

Symptoms/injuries after inhalation : Corrosive to respiratory system. Causes burns.
Symptoms/injuries after skin contact : Causes severe burns.
Symptoms/injuries after eye contact : Causes serious eye damage. Corneal opacity. Iris lesions.
Symptoms/injuries after ingestion : Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

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

Keep under medical supervision for at least 48 hours. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water fog, carbon dioxide (CO₂), dry chemical powder, foam.
Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : On burning: release of (highly) toxic gases/vapours.
Explosion hazard : None known.
Hazardous decomposition products in case of fire : Hazardous combustion products. On combustion forms: carbon oxides (CO and CO₂).

5.3. Advice for firefighters

- Precautionary measures fire : Evacuate the personnel away from the fumes.
Firefighting instructions : Cool down the containers exposed to heat with a water spray. Move undamaged containers from immediate hazard area if it can be done safely.
Protective equipment for firefighters : Extra personal protection: complete protective clothing including self-contained breathing apparatus.
Other information : Do not allow run-off from fire fighting to enter drains or water courses.
Hazchem Code : 2R

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Wear personal protection equipment. Do not attempt to take action without suitable protective equipment.
Emergency procedures : Immediately contact emergency personnel. Eliminate all ignition sources if safe to do so. Spilled material may present a slipping hazard.

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. Do not attempt to take action without suitable protective equipment. In presence of product's residue, total impervious protective suits, gloves, and boots must be worn.
Emergency procedures : Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Spilled material may present a slipping hazard. Avoid inhalation of vapours. Ventilate affected area. Consult an expert.

6.2. Environmental precautions

Avoid release to the environment. Avoid sub-soil penetration. Relevant water authorities should be notified of any large spillage to water course or drain.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak if safe to do so. Recover small spills with a suitable absorbent, like diatomaceous earth. Recover large spills by pumping (use an explosion proof or hand pump).
Methods for cleaning up : Ventilate affected area. Wear personal protection equipment. Collect in closed containers for disposal. Wash with plenty of soap and water. Consult the appropriate authorities about waste disposal. Wash contaminated area with large amounts of water.
Other information : Do not allow uncontrolled discharge of product into the environment.

6.4. Reference to other sections

For disposal of residues refer to section 13 : Disposal considerations. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing mist or vapor. Keep away from sources of ignition - No smoking. Take any precaution to avoid mixing with incompatible materials. Open and handle container with care. Ensure operatives are trained to minimise exposures. Avoid formation of vapours.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Provide adequate ventilation.
Storage conditions : Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight.
Incompatible materials : Acids, alkali, oxidizing agents. Flammable materials. Peroxides.
Storage temperature : 5 - 40 °C
Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.

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Prohibitions on mixed storage : Keep away from food, drink and animal feeding stuffs.

Storage area : Use explosion-proof lighting equipment.

Packaging materials : Stainless steel. Polyvinylchloride (PVC). polypropylene. Polyethylene. Teflon. Neoprene. Unsuitable material: Do not use aluminum, tin or zinc containers, Copper, Lead, Tin (inorganic compounds).

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dipropylene glycol monomethyl ether- (34590-94-8)

Australia	TWA (mg/m ³)	308 mg/m ³
Australia	TWA (ppm)	50 ppm
New Zealand	TWA (mg/m ³)	606 mg/m ³
New Zealand	TWA (ppm)	100 ppm
New Zealand	STEL (mg/m ³)	909 mg/m ³
New Zealand	STEL (ppm)	150 ppm

Potassium hydroxide, caustic potash- (1310-58-3)

Australia	TWA (mg/m ³)	2 mg/m ³ (Peal Limitation)
New Zealand	TWA (mg/m ³)	2 mg/m ³ (ceiling)

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation.

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits.

Materials for protective clothing:

Rubbers. PVC (Polyvinyl chloride). Natural fibres (e.g. cotton)

Hand protection:

Chemical resistant gloves. Break through time: ≥ 480 min. Thickness of glove material: 0.4-0.5 mm. Chemical resistant gloves (nitrile-rubber, PVC, neoprene)

Eye protection:

Wear eye glasses with side protection. Do not wear contact lenses

Skin and body protection:

Chemical resistant protective apron/clothing.

Respiratory protection:

An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits. Wear a respirator with combination filtering device.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
Colour : straw yellow.
Odour : characteristic.
Odour threshold : No data available
pH : 14 at 20°C
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available

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Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.1 - 1.25 kg/l
Solubility	: soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not expected to be explosive as none of the components is classified as explosive.
Oxidising properties	: Not oxidising.
Explosive limits	: No data available

9.2. Other information

VOC content	: 5.5 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts exothermically with (some) acids. Reacts with (strong) oxidizers.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Keep away from acids. Oxidizing agent. Peroxides.

10.5. Incompatible materials

Acids. Oxidizing agent. Peroxides. Flammable materials.

10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases : Nitrogen oxides (NOx). Carbon dioxide (CO2). Phosphorus oxides. Sulfur oxides. Pyrolysis products, toxic.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
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potassium hydroxide, caustic potash (1310-58-3)

LD50 oral rat	333 mg/kg
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Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)

LD50 oral rat	> 2000 mg/kg
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D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)

LD50 oral rat	> 2000 mg/kg (OECD 423 method)
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Alclic ether of carboxylic acid (Not available)

LD50 oral rat	> 2000 mg/kg
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Dipropylene glycol monomethyl ether- (34590-94-8)

LD50 oral rat	5400 mg/kg
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LD50 dermal rat	> 13000 mg/kg
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Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 14 at 20°C

Serious eye damage/irritation : Causes serious eye damage.

pH: 14 at 20°C

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Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

potassium hydroxide, caustic potash (1310-58-3)

LC50 fish 1	80 mg/l <i>Gambusia affinis</i>
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Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)

LC50 fish 1	1 - 10 mg/l (OECD 203 method)
EC50 Daphnia 1	1 - 10 (OECD 202 method)
EC50 other aquatic organisms 1	> 10000 mg/l <i>Bacteria</i> toxicity
EC50 72h algae (1)	0.1 - 1 mg/l (OECD 201 method)
EC50 72h algae (2)	1 - 10 mg/l (OECD 201 method)

D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)

LC50 fish 1	> 100 mg/l <i>Brachydarrio reric</i>
EC50 Daphnia 1	10 - 100 mg/l
EC50 72h algae (1)	10 - 100 mg/l <i>Scenedesmus subspicatus</i>
NOEC chronic fish	1.8 mg/l <i>Brachydario reric</i>
NOEC chronic crustacea	1 mg/l <i>Daphnia Magna</i>

Alclic ether of carboxylic acid (Not available)

LC50 fish 1	> 100 mg/l
EC50 Daphnia 1	67 mg/l
EC50 72h algae (1)	100 mg/l

Dipropylene glycol monomethyl ether- (34590-94-8)

LC50 fish 1	> 10000 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [static])
EC50 Daphnia 1	1919 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i>)
EC50 other aquatic organisms 1	4168 mg/l Active sludge
EC50 72h algae (1)	> 969 mg/l <i>Pseudokirchneriella subcapitata</i>

12.2. Persistence and degradability

potassium hydroxide, caustic potash (1310-58-3)

Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
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Dipropylene glycol monomethyl ether- (34590-94-8)

Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 day

12.3. Bioaccumulative potential

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Bioaccumulative potential	Expected to have a moderate to high bioaccumulative potential.
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potassium hydroxide, caustic potash (1310-58-3)

Bioaccumulative potential	No bioaccumulation.
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Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)

Log Pow	< 1.77
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Bioaccumulative potential	No bioaccumulation.
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12.4. Mobility in soil

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Ecology - soil	Expected to be highly mobile in soil.
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12.5. Results of PBT and vPvB assessment

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Results of PBT assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Reuse or recycle following decontamination. External recovery and recycling of waste should comply with applicable local and/or national regulations. Recycling is preferred to disposal or incineration.
Waste disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point.
HP Code	: HP4 - "Irritant — skin irritation and eye damage." waste which on application can cause skin irritation or damage to the eye HP8 - "Corrosive." waste which on application can cause skin corrosion

SECTION 14: Transport information

In accordance with ADG / IMDG / IATA / ADN / NZS 5433:2012 Transport of Dangerous Goods on Land

ADG	IMDG	IATA	ADN	NZS5433:2012
14.1. UN number	1814	1814	1814	1814
14.2. UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION	Potassium hydroxide solution	POTASSIUM HYDROXIDE SOLUTION
Transport document description				
UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II, (E)	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II	UN 1814 Potassium hydroxide solution, 8, II	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II
14.3. Transport hazard class(es)	8	8	8	8
14.4. Packing group	II	II	II	II
14.5. Environmental hazards	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Hazchem Code	: 2R
Classification code (ADR)	: C5
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 80

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Orange plates

80
1814

Tunnel restriction code (ADR)

: E

EAC code

: 2R

- Transport by sea

Limited quantities (IMDG)

: 1 L

Excepted quantities (IMDG)

: E2

Packing instructions (IMDG)

: P001

IBC packing instructions (IMDG)

: IBC02

Tank instructions (IMDG)

: T7

Tank special provisions (IMDG)

: TP2

EmS-No. (Fire)

: F-A

EmS-No. (Spillage)

: S-B

Stowage category (IMDG)

: A

Segregation (IMDG)

: SG35

Properties and observations (IMDG)

: Colourless liquid. Reacts with ammonium salts, evolving ammonia gas. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.

- Air transport

PCA Excepted quantities (IATA)

: E2

PCA Limited quantities (IATA)

: Y840

PCA limited quantity max net quantity (IATA)

: 0.5L

PCA packing instructions (IATA)

: 851

PCA max net quantity (IATA)

: 1L

CAO packing instructions (IATA)

: 855

CAO max net quantity (IATA)

: 30L

Special provisions (IATA)

: A3

ERG code (IATA)

: 8L

- Inland waterway transport

Classification code (ADN)

: C5

Limited quantities (ADN)

: 1 L

Excepted quantities (ADN)

: E2

Carriage permitted (ADN)

: T

Equipment required (ADN)

: PP, EP

Number of blue cones/lights (ADN)

: 0

- Rail transport

Classification code (RID)

: C5

Limited quantities (RID)

: 1L

Excepted quantities (RID)

: E2

Packing instructions (RID)

: P001, IBC02

Mixed packing provisions (RID)

: MP15

Portable tank and bulk container instructions (RID)

: T7

Portable tank and bulk container special provisions (RID)

: TP2

Tank codes for RID tanks (RID)

: L4BN

Transport category (RID)

: 2

Colis express (express parcels) (RID)

: CE6

Hazard identification number (RID)

: 80

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

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 5.5 %

15.1.2. National regulations

Australia

Australian Inventory of Chemical Substances: : All constituents of this material are listed on the AICS or exempt

Poison schedule (SUSDP): : Not scheduled

Agricultural and Veterinary Chemicals Act 1988 : Not Applicable

New Zealand

Classification: : Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

National Chemical Inventories (NZIoC) : All components are listed on the New Zealand Inventory of Chemicals or exempt

HSNO Approval Number (Group Standard) : HSRO02526. Cleaning Products (Corrosive) Group Standard 2006

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out

potassium hydroxide, caustic potash
D-Glucopyranose, oligomeric, decyl octyl glycosides

SECTION 16: Other information

Abbreviations and acronyms:

SDS	Safety Data Sheet
	CAS - Chemical Abstracts Service
	GHS - Globally Harmonised System
	CSR - Chemical Safety Report
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
	PVC (Polyvinyl chloride).
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

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Other information

: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H412	Harmful to aquatic life with long lasting effects

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Met. Corr. 1	H290	Calculation method
Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method

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