

* **Isopropyl alcohol (Isopropanol)**

Date revised: 02.08.2018

1000376

Version: 9 / NL

Master No. M-048

Print date: 29.10.2020

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

1.1. Product identifier

Trade name

Isopropyl alcohol (Isopropanol)

REACH-Registration no. 01-2119457558-25-XXXX

Use of the substance/mixture

Base chemical with not specially defined use

1.3. Details of the supplier of the safety data sheet

Address

Nedform BV

Hofdwarsweg 20

6161 DD Geleen,

The Netherlands

Telephone no.

+31 546 577774

E-mail address

info@neform.com

1.4. Emergency telephone number

National poisoning information center (NVIC) +31 (0) 30 274 8888

Only for the purpose of informing medical personnel in cases of accidental intoxications.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225

Eye Irrit. 2 H319

STOT SE 3 H336

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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lenses, if present and easy to do. Continue rinsing.
Dispose of contents/container in accordance with local / regional / national / international regulations.

Further supplemental information

Restricted to professional users

2.3. Other hazards**PBT and vPvB**

You find the results of PBT and vPvB assessment in section 12.

SECTION 3: Composition/information on ingredients**3.1. Substances****Hazardous ingredients (Regulation (EC) No. 1272/2008)****Propan-2-ol**

CAS No. 67-63-0

EINECS no. 200-661-7

REACH-Registration no. 01-2119457558-25-XXXX

no.

Concentration >= 99 %

Flam. Liq. 2 H225

Eye Irrit. 2 H319

STOT SE 3 H336

Complete text of H-phrases in Chapter 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove soiled or soaked clothing immediately, do not allow to dry. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Take medical treatment.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Take medical treatment.

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

The following symptoms may occur: Headache, Nausea, Coughing, Shortness of breath, The product can cause skin and eye irritation.

Effect on the central nervous possible.

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

Treat symptomatically

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media

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Carbon dioxide, Dry powder, Water spray jet, Alcohol-resistant foam

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Formation of explosive gas/air mixtures. Provide good room ventilation even at ground level (vapours are heavier than air). Distant ignition possible; If a fire breaks out nearby, pressure build-up and danger of bursting are possible.

5.3. Advice for firefighters

Use self-contained breathing apparatus.

Cool endangered containers with water spray jet. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Ensure adequate ventilation. Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Suppress gases/vapours/mists with water spray jet. Prevent spread over a wide area (e.g. by containment or oil barriers). At penetration into waters or sewer notify the authority. At penetration into the ground notify the authority.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Ensure adequate ventilation. When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Provide good room ventilation even at ground level (vapours are heavier than air). Do NOT use compressed air for filling, discharging, or handling operations.

Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Do not inhale vapours. Keep separated from food-stuffs and feed-stocks. At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Vapours can form an explosive mixture with air. Risk of explosion if the liquid enters the drains. Take precautionary measures against static discharge. Use explosion-proof equipment/fittings and non-sparking tools. Ignitable mixtures can form in the empty container.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature > 5 < 25 °C

Protect from heat and direct sunlight. Use stainless steel containers.

Do not store together with: Oxidising agents, Acids, Alkalis, Amines

storage category TRGS 510 3 Flammable liquid

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

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters**Exposure limit values****Propan-2-ol**

| | | | | |
|--------------------------|-----|-------------------|-----|--------|
| List | MAC | | | |
| Long term exposure limit | 650 | mg/m ³ | 250 | ppm(V) |

Derived No/Minimal Effect Levels (DNEL/DMEL)**Propan-2-ol**

| | | | | |
|---------------|----------|-------------------|------------|------------------|
| DNEL | | | | |
| Conditions | Worker | Long term | dermal | Systemic effects |
| Concentration | 888 | mg/kg | | |
| DNEL | | | | |
| Conditions | Worker | Long term | inhalative | Systemic effects |
| Concentration | 500 | mg/m ³ | | |
| DNEL | | | | |
| Conditions | Consumer | Long term | dermal | Systemic effects |
| Concentration | 319 | mg/kg | | |
| DNEL | | | | |
| Conditions | Consumer | Long term | inhalative | Systemic effects |
| Concentration | 89 | mg/m ³ | | |
| DNEL | | | | |
| Conditions | Consumer | Long term | oral | Systemic effects |
| Concentration | 26 | mg/kg | | |

Predicted No Effect Concentration (PNEC)**Propan-2-ol**

| | | | |
|---------------|------------------------------|-------|--|
| Type of value | PNEC | | |
| Type | Freshwater | | |
| Concentration | 140,9 | mg/l | |
| Type of value | PNEC | | |
| Type | Saltwater | | |
| Concentration | 140,9 | mg/l | |
| Type of value | PNEC | | |
| Type | Freshwater sediment | | |
| Concentration | 552 | mg/kg | |
| Type of value | PNEC | | |
| Type | Marine sediment | | |
| Concentration | 552 | mg/kg | |
| Type of value | PNEC | | |
| Type | Soil | | |
| Concentration | 28 | mg/kg | |
| Type of value | PNEC | | |
| Type | periodic release | | |
| Concentration | 140,9 | mg/l | |
| Type of value | PNEC | | |
| Type | Sewage treatment plant (STP) | | |
| Concentration | 2251 | mg/l | |

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| | | |
|---------------|---------------------|-------|
| Type of value | PNEC | |
| Type | Secondary poisoning | |
| Concentration | 160 | mg/kg |

8.2. Exposure controls**Respiratory protection in accordance with DIN EN 136 / DIN EN 140 / DIN EN 143 / DIN EN 149**

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus in the event of aerosol or mist formation. Self-contained breathing apparatus. Short term: filter apparatus, Filter A

Hand protection in accordance with DIN EN 374

| | | |
|----------------------|-----------------|-----|
| impermeable gloves | | |
| Appropriate Material | Nitril rubber | |
| Material thickness | >= 0,35 | mm |
| Breakthrough time | >= 480 | min |
| impermeable gloves | | |
| Appropriate Material | Butyl rubber | |
| Material thickness | >= 0,5 | mm |
| Breakthrough time | >= 480 | min |
| impermeable gloves | | |
| Appropriate Material | Polychloroprene | |
| Material thickness | >= 0,5 | mm |
| Breakthrough time | >= 240 | min |

Eye protection in accordance with DIN EN 166

Tightly fitting safety glasses

Body protection in accordance with DIN EN 465

Solvent-resistant protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

| | |
|--------------|--------------|
| Form | liquid |
| Colour | clear |
| Odour | alcohol-like |

Odour threshold

| | |
|---------|-------------------|
| Remarks | No data available |
|---------|-------------------|

pH value

| | |
|---------|----------------|
| Remarks | Not applicable |
|---------|----------------|

Melting point/freezing point

| | | |
|-------|-----|----|
| Value | -88 | °C |
|-------|-----|----|

Initial boiling point and boiling range

| | | | | |
|-------|----|----|----|----|
| Value | 82 | to | 83 | °C |
|-------|----|----|----|----|

Flash point

| | | |
|--------|-----------|----|
| Value | 12 | °C |
| Method | DIN 51755 | |

Evaporation rate

| | |
|---------|-------------------|
| Remarks | No data available |
|---------|-------------------|

Flammability (solid, gas)

No data available

Upper/lower flammability or explosive limits

| | | |
|-----------------------|-----|------|
| Lower explosion limit | 2,0 | %(V) |
| Upper explosion limit | 12 | %(V) |

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Vapour pressure

| | | | |
|-------------|------|----|-----|
| Value | 42 | | hPa |
| Temperature | 20 | °C | |
| Value | 60,2 | | hPa |
| Temperature | 25 | °C | |

Vapour density

| | | | |
|-------|------|--|--|
| Value | 1,05 | | |
|-------|------|--|--|

Relative density

| | | | |
|-------------|-------------|----|-------------------|
| Value | appr. 0,786 | | g/cm ³ |
| Temperature | 20 | °C | |

Solubility(ies)

| | |
|---------|---------------------|
| Medium | Water |
| Remarks | Completely miscible |

Auto-ignition temperature

| | | |
|-------|-----|----|
| Value | 425 | °C |
|-------|-----|----|

Decomposition temperature

| | |
|---------|---|
| Remarks | No decomposition if used as prescribed. |
|---------|---|

Viscosity

| | | | |
|-------------|-----|----|-------|
| Value | 2,5 | | mPa.s |
| Temperature | 20 | °C | |
| Value | 2,1 | | mPa.s |
| Temperature | 25 | °C | |

Explosive properties

| | |
|---------|---|
| Remarks | Vapours can form an explosive mixture with air. |
|---------|---|

Oxidising properties

| | |
|------------|---------------|
| evaluation | not oxidizing |
|------------|---------------|

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactions with acids and strong oxidising agents.

10.2. Chemical stability

Under normal conditions of storage and use is the product stable.

10.3. Possibility of hazardous reactions

Protect from exposure to air/oxygen (peroxide formation). Vapours can form an explosive mixture with air.

10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Oxidising agents, Acids, alkali metals, Aluminium, Iron, Amines, Aldehydes, halogenated hydrocarbons, Halogens

10.6. Hazardous decomposition products

In case of combustion evolution of dangerous gases possible.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity (Components)**

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Propan-2-ol

| | | |
|---------|------------------|-------|
| Species | rat | |
| LD50 | > 2000 | mg/kg |
| Source | Literature value | |

Acute dermal toxicity (Components)**Propan-2-ol**

| | | |
|---------|------------------|-------|
| Species | rabbit | |
| LD50 | > 2000 | mg/kg |
| Source | Literature value | |

Acute inhalative toxicity (Components)**Propan-2-ol**

| | | |
|----------------------|------------------|------|
| Species | rat | |
| LC50 | > 20 | mg/l |
| Duration of exposure | 8 | h |
| Source | Literature value | |

Skin corrosion/irritation**Propan-2-ol**

| | |
|---|------------------|
| Species | rabbit |
| evaluation | non-irritant |
| Repeated and prolonged skin contact may lead to defatting and irritation of the skin. | |
| Source | Literature value |

Serious eye damage/irritation**Propan-2-ol**

| | |
|------------|------------------|
| Species | rabbit |
| evaluation | irritant |
| Source | Literature value |

Sensitization (Components)**Propan-2-ol**

| | |
|------------|------------------|
| Species | guinea pig |
| evaluation | non-sensitizing |
| Method | Buehler - Test |
| Source | Literature value |

Carcinogenicity (Components)**Propan-2-ol**

Indications of possible carcinogenic effects are not available.

Specific Target Organ Toxicity (STOT)**Single exposure****Propan-2-ol**

May cause drowsiness or dizziness.

Repeated exposure**Propan-2-ol**

Caused kidney effects in male rats which are not considered relevant to humans.

Aspiration hazard**Propan-2-ol**

No special hazards have to be mentioned.

Other information

Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness.

SECTION 12: Ecological information**12.1. Toxicity**

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Fish toxicity (Components)**Propan-2-ol**

| | | | |
|----------------------|---|------|------|
| Species | golden orfe (<i>Leuciscus idus</i>) | | |
| LC50 | > | 100 | mg/l |
| Duration of exposure | 48 | h | |
| Remarks | Static system | | |
| Source | Literature value | | |
| Species | Fathead minnow (<i>Pimephales promelas</i>) | | |
| LC50 | | 9640 | mg/l |
| Duration of exposure | 96 | h | |

Daphnia toxicity (Components)**Propan-2-ol**

| | | | |
|----------------------|------------------|-----|------|
| Species | Daphnia magna | | |
| EC50 | > | 100 | mg/l |
| Duration of exposure | 48 | h | |
| Remarks | Static system | | |
| Source | Literature value | | |

Algae toxicity (Components)**Propan-2-ol**

| | | | |
|----------------------|-------------------------|-----|------|
| Species | Scenedesmus subspicatus | | |
| EC50 | > | 100 | mg/l |
| Duration of exposure | 72 | h | |
| Remarks | Static system | | |
| Source | Literature value | | |

12.2. Persistence and degradability**Biodegradability (Components)****Propan-2-ol**

| | | | |
|-----------------------------|--------------------|---|---|
| Value | 95 | | % |
| Duration of test | 21 | d | |
| Method | OECD 301 E | | |
| Value | 53 | | % |
| Duration of test evaluation | 5 | d | |
| | readily degradable | | |

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****Propan-2-ol**

| | | |
|---|---|---|
| log Pow | < | 3 |
| The possibility of bioaccumulation is slight. | | |

Bioconcentration factor (BCF)**Propan-2-ol**

| | | |
|-----|---|-----|
| BCF | < | 100 |
|-----|---|-----|

12.4. Mobility in soil

Mobile in soils

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

The Substance do not meets PBT-criteria. The Substance do not meets vPvB-criteria.

12.6. Other adverse effects**Behaviour in environment compartments**

No information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

Land transport ADR/RID

| | |
|--|---------------------------------|
| 14.1. UN number | 1219 |
| 14.2. UN proper shipping name | ISOPROPANOL (ISOPROPYL ALCOHOL) |
| 14.3. Transport hazard class(es) | 3 |
| Label | 3 |
| 14.4. Packing group | II |
| 14.5. Environmental hazards | - |
| Tunnel restriction code | D/E |
| 14.6. Special precautions for user | No information available. |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code | No information available. |

Marine transport IMDG/GGVSee

| | |
|--|---------------------------------|
| 14.1. UN number | 1219 |
| 14.2. UN proper shipping name | ISOPROPANOL (ISOPROPYL ALCOHOL) |
| 14.3. Transport hazard class(es) | 3 |
| 14.4. Packing group | II |
| 14.5. Environmental hazards | - |
| EmS | F-E, S-D |
| 14.6. Special precautions for user | No information available. |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code | No information available. |

Air transport ICAO/IATA

| | |
|--|---------------------------|
| 14.1. UN number | 1219 |
| 14.2. UN proper shipping name | ISOPROPANOL |
| 14.3. Transport hazard class(es) | 3 |
| 14.4. Packing group | II |
| 14.6. Special precautions for user | No information available. |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code | No information available. |

SECTION 15: Regulatory information ***

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**VOC-Content according to directive 2010/75/EU *****

VOC (EU) 100 %

SVHC

The product does not contain substances of very high concern (SVHC).

Registration status**Propan-2-ol**

| | |
|--|----------------------------------|
| TCSI(Taiwan chemical substance inventory) | listed or meets the requirements |
| IECSC (China) | listed or meets the requirements |
| TSCA (USA) | listed or meets the requirements |
| NZIOOC(New Zealand) | listed or meets the requirements |
| ENCS (Japan) | listed or meets the requirements |
| ECL/TCCL (Korea) | listed or meets the requirements |
| PICCS (Philippines) | listed or meets the requirements |
| AICS (Australian Inventory of Chemical Substances) | listed or meets the requirements |
| DSL (Canada) | listed or meets the requirements |

TA-Luft

Section 5.2.5: Organic Substances

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

| | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

CLP categories listed in Chapter 3

| | |
|--------------|--|
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquid, Category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, Category 3 |

Abbreviations

| | |
|------------|---|
| AC: | Article Category |
| ACGIH: | American Conference of Governmental Industrial Hygienists |
| ADN: | Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure |
| ADNR: | Accord européen relatif au transport international des marchandises dangereuses par navigation sur le Rhin |
| ADR: | Accord européen relatif au transport international des marchandises Dangereuses par Route |
| AGW: | Arbeitsplatzgrenzwert |
| AICS: | Australian Inventory of Chemical Substances |
| AOX: | adsorbable organically bound halogens |
| ARW: | Arbeitsplatzrichtwert (Germany) |
| ASTM: | American Society for Testing And Materials |
| ATE: | acute toxicity estimates |
| ATP: | Adaptation to technical and scientific progress |
| AWsV: | Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Germany) |
| BAR: | Biologischer Arbeitsstoff-Referenzwert |
| BCF: | bioconcentration factor |
| BetrSichV: | Betriebssicherheitsverordnung (Germany) |
| BG: | Berufsgenossenschaft (Germany) |
| BGW: | Biologischer Grenzwert |

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BLW: Biologischer Leitwert
BOD: biochemical oxygen demand
CAS: Chemical Abstracts Service
cATpE: converted acute toxicity point estimate
CEA: Comité Européen des Assurances
CEFIC: European Chemical Industry Council
CESIO: Comité Européen des Agents de Surface et leurs Intermédiaires Organiques
ChemG: Chemikaliengesetz (Germany)
CMR: Cancerogen Mutagen Reprotoxic
COD: chemical oxygen demand
DFG: Deutsche Forschungsgemeinschaft
DIN: german industry standard
DMEL: Derived minimal effect level
DNEL: Derived no effect level
DOC: dissolved organic carbon
DSL: Canada Domestic Substances List
EAK: Europäischer Abfallkatalog
EbC: inhibitory concentration of growth
EC: effective concentration
EC: European Community
ECETOC: European Centre For Ecotoxicology and toxicology of Chemicals
ECHA: European Chemicals Agency
EEC: European Economic Community
EG: Europäische Gemeinschaft
EH40: List of approved workplace exposure limits
EINECS: European Inventory of Existing Commercial Chemical Substances
EKA: Expositionsäquivalente für krebserzeugende Arbeitsstoffe
EL: effect level
ELINCS: European List of Notified Chemical Substances
EmS: Emergency Schedules
EN: european standards
ENCS: Japanese Existing and New Chemical Substances Inventory
ERC: Environmental Release Category
ErC: inhibitory concentration of the growth rate
EU: European Union
EWG: Europäische Wirtschaftsgemeinschaft
FDA: Food and Drug Administration
FMVSS: National Highway Traffic Safety Administration
GefStoffV: Gefahrstoffverordnung
GGVSee: Gefahrgutverordnung See
GHS: Globally Harmonized System of classification and Labelling of Chemicals
IARC: International Agency for Research on Cancer
IATA: International Civil Aviation Organization
IBC: Intermediate Bulk Container
IC: inhibitory concentration
ICAO: International Air Transport Association
IECSC: Chinese Chemical Inventory of Existing Chemical Substances
IMDG: International Maritime Code for Dangerous Goods
IMO: International Maritime Organization
INCI: International Nomenclature of Cosmetic Ingredients
IRPTC: International Register of Potentially Toxic Chemicals
ISO: International Organization for Standardization
IUCLID: International Uniform Chemical Information Database
Cat: category
KBwS: Kommission zur Bewertung wassergefährdender Stoffe (Germany)
KECI: Korea Existing Chemicals Inventory
LC: Lethal concentration
LD: Lethal dose
LDLo: lethal dose low

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LGK: storage category
LL: Lethal level
LLC: Lowest lethal concentration
NCI: National Chemicals Inventory
LOAEL: Lowest observed adverse effect level
LOEC: Lowest observed effect concentration
LOEL: Lowest observed effect level
Log pow: logarithm of the distribution coefficient n-octanol / water
LQ: limited quantity
MAC: Maximale aanvaarde concentratie (Netherlands)
MAK: Maximale Arbeitsplatz-Konzentration
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution)
MEL: Maximum exposure limits
MITI: Ministry of International Trade and Industry (Japan)
n.a.g.: nicht anders genannt
NATEC: Naval Air Technical Data and Engineering Service Command
NCI: National Chemicals Inventory
NLP: No-longer Polymer
NOAEC: No observed adverse effect concentration
NOAEL: no observable adverse effect level
NOEC: No observable effect concentration
NOEL: No observable effect level
NOELR: no observable effect loading rate
NZIOC: New Zealand Inventory of Chemicals
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational exposure limit
OELV: Occupational exposure limit value
OES: Occupational exposure standards
PBT: Persistent, Bioaccumulative and Toxic
PC: Product Category
PEC: Predicted environmental concentration
PICCS: Philippine Inventory of Chemicals and Chemical Substances
PNEC: predicted no effect concentration
PNEC: Predicted no effect concentration
pOW: Octanol-water partition coefficient
PROC: Process Category
REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
RTECS: Registry of Toxic Effects of Chemical Substances
SAE: Society of Automotive Engineers
STP: Sewage treatment plant
SU: Sector of Use
SUVA: Schweizerische Unfallversicherungsanstalt
SVHC: Substances of very high concern
TA Luft: Technische Anleitung zur Reinhaltung der Luft
TCCL: Toxic Chemical Control Law
ThOD: theoretical oxygen demand
TRA: targeted risk assessment
TRG: Technische Regeln Druckgase (Germany)
TRgA: Technische Regeln für gefährliche Arbeitsstoffe(Germany)
TRGS: Technische Regeln für Gefahrstoffe
TRK: Technische Richtkonzentration
TSCA: Toxic Substances Control Act (USA)
UN: United Nations
VbF: Verordnung über brennbare Flüssigkeiten
VCI: Verband der Chemischen Industrie e.V.
VDE: Verband der Elektrotechnik, Elektronik und Informtaionstechnik e.V.
VDI: Verein Deutscher Ingenieure

* **Isopropyl alcohol (Isopropanol)**

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VLEP: Valeurs Limites d'exposition Professionnelle
VOC: Volatile Organic Compound
vPvB: Very persistent and very bioaccumulative
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe
WEL: Workplace exposure limit
WGK: water hazard class (Germany)
WHO: World Health Organization
WoE: Weight of Evidence

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.