



PROPSPEED ETCHING PRIMER HARDENER

Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Date of revision 2020-05-22, Version 2

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

1.1 Product identifier

Product name Propspeed Etching Primer Hardener
Catalog No. Component in Propspeed kits 782A (1 L), 783A (500 mL), 783kit (200 mL), and Etching Hardener kit 782BC.

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

Identified uses Hardener for metal primer base (marine industry).

1.3 Details of the supplier of the Safety Data Sheet

Supplier Propspeed International Ltd
PO Box 83232
Edmonton
Auckland
New Zealand
www.propspeed.com

Telephone +64 9 524 1470
Telefax +64 9 813 5246

E-mail (competent person) info@propspeed.com

1.4 Emergency telephone number

Emergency number +64 4 917 9888 (ChemCall)
(24h/24 – 365 d/year)

Section 2 - Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

Hazard class	Hazard category	H-Code
Flammable liquids	Category 2	H225
Skin corrosion/irritation	Category 1C	H314

Serious eye damage/eye irritation	Category 2	H319
Specific target organ toxicity after single exposure	Category 3	H336

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms:



Signal word: Danger

Hazard statements:

[H-Code: Hazard information]

H225: Highly flammable liquid and vapour.

H314: Causes severe skin burns and eye damage.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Precautionary statements:

[P-Code: Safety information]

General

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

Prevention

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

P233: Keep container tightly closed.

P260: Do not breathe fume and vapours.

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

Intervention

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.

P310: Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P403 + P235: Store in a well-ventilated place. Keep cool.

Elimination

P501: Dispose of contents/container to an approved waste disposal plant.

Reduced labelling (≤ 125 ml) according to Regulation (EC) No. 1272/2008.

Derogations as referred to in section 1.5.2.1. of Annex I.

Hazard pictograms:



Signal word: Danger

Hazard statements:

H314: Causes severe skin burns and eye damage.

H336: May cause drowsiness or dizziness.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

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P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501: Dispose of contents/container to an approved waste disposal plant.

Section 3 - Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Description of the mixture

Hardener that contains orthophosphoric acid and alcohol.

<Hazardous ingredients>

CAS No.	CE No.	Substance	Concentration %	Classification according to Regulation (EC) No. 1272/2008	
	REACH registration No.				
67-63-0	200-661-7	Propan-2-ol	60 - 100	Flam. Liq. 2	H225
	01-2119457558-25	Index REACH No. 603-117-00-0		Eye Irrit. 2 STOT SE 3	H319 H336
7664-38-2	231-633-2	Orthophosphoric acid	10 - 20	Skin Corr. 1B	H314
	01-2119485924-24	Index REACH No. 015-011-00-6			

Section 4 - First aid measures

4.1 Description of first aid measures

General information:

- First aider: pay attention to self-protection.
- Remove victim to safety.

Following inhalation:

- Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Seek medical advice if needed. Show these instructions or product label.

Following skin contact:

- Remove contaminated clothing immediately.
- Wash skin with soap and plenty of water. Important to remove the substance from the skin immediately. Continue to rinse for at least 15 minutes.
- Shower immediately in case of significant contamination.
- Seek medical attention. Show these instructions and label.

Following eye contact:

- Flush immediately with plenty of flowing water. Hold eyelids apart to rinse the entire surface of the eye.
- Remove contact lenses if those can be easily removed.
- Call an ambulance and continue flushing during transportation to hospital. Bring these instructions.

Following ingestion:

- Never give anything by mouth to an unconscious person.
- If victim is conscious, rinse mouth.
- Do NOT induce vomiting.
- Call a doctor/physician immediately. Show these instructions and label if possible.

4.2 Most important symptoms and effects, both acute and delayed

Eye: serious eye damage/irritation. Blindness.

Skin: severe burns

Inhalation: irritation of the throat and airways, cough, breathing difficulties, vertigo, headache

Ingestion: dizziness, nausea, vomiting, narcosis, spasm, shock

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Section 5 – Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media:**

Carbon dioxide or dry powder.

Remove safely flammable containers from danger zone.

Unsuitable extinguishing media:

Strong water jet.

5.2 Special hazards arising from the substance or mixture

Flammable liquid.

Vapours can form explosive mixtures with air at ambient temperatures. Development of hazardous combustion gases or vapours is possible in the event of fire. Phosphorus oxide may be liberated on case of fire. Vapours may move towards ignition source and cause flashback/reignition. Beware of flashback. Vapours are heavier than air and may spread along floors. Thermal decomposition can lead to release of irritating, corrosive and toxic gases/vapours. Containers may explode when heated.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and appropriate protective equipment.

Follow the general fire precautions indicated in the workplace.

Section 6 - Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Wear personal protective equipment (see section 8).
- Do NOT touch the product and avoid any kind of contact/exposure.
- Do NOT smoke, do NOT use flames or other sources of ignition.
- Non-emergency personnel: evacuate the danger area, observe emergency procedures.

6.2 Environmental precautions

Do not allow to enter drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Do not drain away with water. Soak up spillage with absorbent non-flammable materials (sand, ground, etc.). Do NOT use sawdust or other flammable material. Observe possible material restrictions (see section 7 and 10).

Prevent further spillage if safe to do so. Keep spillage away from drains, waters, basements and enclosed spaces. Place in metallic/ plastic container with tight-fitting lid for disposal, with indication of the content. Dispose of as special waste in compliance with local and national regulations. Ventilate and clean affected area. Disposal considerations: see section 13.

6.4 Reference to other sections

Incompatible materials: see section 7 and 10.

Personal protective equipment: see section 8.

Disposal considerations: see section 13.

Section 7 - Handling and storage**7.1 Precautions for safe handling**

- Read label before use and observe label precautions.
- Read safety data sheet before use.
- Ensure adequate ventilation when using the product.
- Keep away from incompatible materials listed in section 10.
- Follow the general fire precautions indicated in the workplace.
- Keep away from heat, sparks, open flames and hot surfaces. — No smoking.
- Wear personal protective clothing and equipment as per section 8.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharges.
- Do not breathe fume and vapours.
- Wash hands thoroughly after handling.
- Keep container tightly closed when not in use.
- Electrostatic charges may be generated during transfer of product from its container.
- Vapours can form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

- Keep out of reach of children.
- Store in a cool and well-ventilated place.
- Keep containers tightly closed.

- Keep away from heat, sparks, open flames and hot surfaces.
- Protect from sunlight.
- Keep away from water and moisture.
- Do NOT store with oxidizing agents.
- Store away from incompatible materials as detailed in section 10.
- Store locked-up, in an area accessible only to trained and authorized personnel.
- Ground/bond container and receiving equipment.
- Vapours can form explosive mixtures with air.
- Have appropriate equipment to clean spillage and fire extinguishers near the storage area.
- Recommended storage temperature: < 25 °C

7.3 Specific end use(s)

No specific use provided except for that mentioned in section 1.2.

Section 8 - Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits (WELs) for chemical substances established nationally:

- **UK:** EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated Fourth Edition 2020. Published with the permission of the Health and Safety Executive on behalf of the Controller of Her Majesty's Stationery Office.
- **IRE:** 2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulation (2001-2019). Published by the Health and Safety Authority.

And in the Community:

- **EU:** Directive 2000/39/EC. <https://osha.europa.eu/en/legislation/directives/commission-directive-2006-15-ec>

Occupational exposure limit values (WELs)

Component	Country /Region	TWA (1)		STEL (2)	
		ppm	mg.m ⁻³	ppm	mg.m ⁻³
Propan-2-ol	UK	400	999	500	1250
	IRE	200	-	400	-
	EU	-	-	-	-
Orthophosphoric acid	UK	-	1	-	2
	IRE	-	1	-	2
	EU	-	1	-	2

(1) TWA Time-weighted average (long-term exposure limit): a value in relation to an 8-hour time-weighted average reference period

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(2) *STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute reference period*

Derived No Effect Level (DNEL)

		Workers			
Component	Exposure	Acute / short-term Local Effects	Acute / short-term Systemic Effects	Long-term Local Effects	Long-term Systemic Effects
Propan-2-ol	Inhalation	-	-	-	500 mg/m ³
	Dermal	-	-	-	888 mg/kg bw/day
Orthophosphoric acid	Inhalation	2 mg/m ³	-	1 mg/m ³	10,7 mg/m ³
	Dermal	-	-	-	-

		General population			
Component	Exposure	Acute / short-term Local Effects	Acute / short-term Systemic Effects	Long-term Local Effects	Long-term Systemic Effects
Propan-2-ol	Inhalation	-	-	-	89 mg/m ³
	Dermal	-	-	-	319 mg/kg bw/day
	Oral	-	-	-	26 mg/kg bw/day
Orthophosphoric acid	Inhalation	-	-	360 µg/m ³	4.57 mg/m ³
	Dermal	-	-	-	-
	Oral	-	-	-	100 µg/kg bw/day

Predicted No-Effect Concentration (PNEC)

Component	Environmental protection objective	PNEC Value
Propan-2-ol	Freshwater	140.9 mg/l
	Intermittent releases (freshwater)	140.9 mg/l
	Sediment (freshwater)	552 mg/kg
	Marine water	140.9 mg/l
	Sediment (marine water)	552 mg/kg
	Soil	28 mg/kg
	Sewage treatment plant (STP)	2,251 mg/l
Orthophosphoric acid	No data available.	

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation, especially in confined areas. Wear personal protective clothing and equipment. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Avoid any exposure for pregnant women. Wash hands thoroughly before breaks and after work. Avoid contact with skin, eyes and clothing. Take off all contaminated clothing immediately. Personal protective clothing must be kept separate from other clothes. Do not breathe vapours or spray mist. Ensure that eyewash stations are close to the workstation location. Warn cleaning personnel of chemical's hazardous properties.

8.2.2 Personal protective equipment

Eye/face protection

Use tight fitting safety goggles or face shield. European standard EN 166.
Avoid wearing contact lenses.

Hand protection

Protective gloves must be worn at all times.

Type of material (recommended): Nitrile rubber protective gloves.

Material thickness: > 0.4 mm.

Breakthrough times of the glove material: > 480 min.

European standard EN 374.

Other types of gloves can be recommended by the glove supplier.

Inspect gloves prior to use. Be aware that the liquid may penetrate the gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the risk of cuts, abrasion and contact time. Warning: due to the many influencing factors (e.g. temperature), the duration of use of a chemical protective glove may be significantly shorter than the breakthrough times determined by the tests. Frequent change is advisable. Ensure proper glove removal technique to avoid skin contact with contaminated surfaces. Dispose of contaminated gloves according to local laws and good workplace practices.

Skin and body protection

Wear acid-resistant protective clothing to avoid any possibility of liquid/vapour contact.

Respiratory protection

Use respiratory protection with full mask when adequate ventilation cannot be provided or when inhalation exposure limits are exceeded.

Appropriate respiratory protection: respirator with full mask, in accordance to European standards NF EN. Recommended filter type: anti-gas filter ABEK (certain inorganic gas and vapour, organics and acids, ammoniac/amines) compliant with recognized standards like NF EN 14387.

Observe the maximum wearing times of respiratory protection devices and the instructions of the manufacturer.



8.2.3 Environmental exposure controls

Do not let product enter drains, surface and ground water.

Section 9 – Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	colourless, transparent
Odour	solvent
Odour threshold	data not available
pH	1.2 – 1.5
Melting point/freezing point	data not available
Initial boiling point	82 °C to 83 °C
Flash point	15 °C
Evaporation rate	data not available
Flammability	data not available
Explosive limits	lower limit: 1.1%, upper limit: 12.0%
Vapour pressure	4,266 Pa (20 °C)
Density	0.89 – 0.91 (air=1)
Relative vapour density	1.4 – 1.7 (air=1)
Solubility	data not available
Partition coefficient (n-octanol/water)	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Molecular mass	data not available

Section 10 – Stability and reactivity**10.1 Reactivity**

Stable under normal handling and storage conditions.

Other important information may be mentioned in other parts of this chapter.

10.2 Chemical stability

Stable under normal handling and storage conditions. Curation time: 10 - 60 min (20 °C)

10.3 Possibility of hazardous reactions

Vapours may form explosive mixture with air.

May form peroxides and dihydrogen.

Risk of ignition.

Violent reaction with: alkalis, metallic oxides

Risk of ignition or formation of inflammable gases or vapours with: alkali metals, alkaline earth metals, chromium (VI) oxide, metal alloys

Risk of explosion with: perchlorates, nitro derivative, hydrogen peroxide, phosgene

Exothermic reaction with: aldehydes, amines, oleum, iron, aluminium, chlorine, phosphorus trichloride, strong acids, halogen compounds, potassium tert-butyrate

10.4 Conditions to avoid

Keep away from heat, open flames and sources of ignition.

10.5 Incompatible materials

Avoid contact with alkalis. Avoid contact with oxidisers and reducing agents.

See 10.3 for more details.

10.6 Hazardous decomposition products

May form peroxides and dihydrogen.

Thermal decomposition can lead to release of irritating, corrosive and toxic gases/vapours.

Section 11 – Toxicological information**11.1 Information on toxicological effects****A. COMPONENTS****[Propna-2-ol]****Acute toxicity**

LD50 (oral) 5,840 mg/kg (rat)

LC50 (inhalation) 10,000 ppm/6h (rat)
 LD50 (dermal) 16.4 ml/kg (rabbit)
 (ECHA)

Skin corrosion/irritation

Causes mucosal irritation.

Eye damage/irritation

Causes irritation.

Skin sensitization/Sensitization to the respiratory tract

Causes airways irritation.

Germ cell mutagenicity

In vitro genotoxicity: negative. In vitro genotoxicity: negative.

Carcinogenicity

None.

Reproductive toxicity

Toxic to fertility and development of animals only, in doses causing toxic effects in parents.

Teratogenicity

No data available.

Specific target organ toxicity (single or repeated exposure)

No data available.

Source: ECHA and French INRS

[Orthophosphoric acid]

Acute toxicity

LD50 (oral) 1,530 mg/kg (rat)
 LC50 (inhalation) > 213 mg/m³/4h (rat)
 1,689 mg/m³/1h (rabbit)
 LD50 (dermal) 2,740 mg/kg (rabbit)

Skin corrosion/irritation

Causes severe skin burns/irritation and burns/irritation of respiratory and digestive mucous membrane.

Eye damage/irritation

Causes severe eye damage.

Skin sensitization/Sensitization to the respiratory tract

Causes severe airways irritation.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available. The International Agency for Research on Cancer (IARC) has classified strong inorganic acid mists as group 1 human carcinogens.

Reproductive toxicity

Fetotoxic for rats exposed to high concentration by inhalation.

Teratogenicity

No data available.

Specific target organ toxicity (single or repeated exposure)

No data available.

Source: French INRS

B. MIXTURE

Acute toxicity

Lethal dose (oral)	No specific data on mixture.
Lethal dose (dermal)	No specific data on mixture.
Lethal concentration (inhalation)	No specific data on mixture.

Skin corrosion/irritation

Conclusion/summary on mixture	Causes severe burns.
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Eye damage/irritation

Conclusion/summary on mixture	Causes serious eye damage.
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Skin sensitization/Sensitization to the respiratory tract

Conclusion/summary on mixture	No specific data on mixture.
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Germ cell mutagenicity

Conclusion/summary on mixture	No specific data on mixture.
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Carcinogenicity

Conclusion/summary on mixture	No specific data on mixture.
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Reproductive toxicity

Conclusion/summary on mixture	No specific data on mixture.
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Specific target organ toxicity - single exposure

Conclusion/summary on mixture	No specific data on mixture.
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Specific target organ toxicity - repeated exposure

Conclusion/summary on mixture	No specific data on mixture.
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Aspiration hazard

No specific data on mixture.

11.2 Further information

Other adverse effects: severe irritation and burns of the respiratory and digestive tract, central nervous system depression, kidney damage, nausea, migraine, vomiting, narcosis, coma, ataxia, blindness, shock.

Other dangerous properties cannot be excluded.

Section 12 – Ecological information

12.1 Toxicity

A. COMPONENTS

Propan-2-ol	Fathead minnow fish (<i>Pimephales promelas</i>) LC50 – 9,640 mg/l – 96h - dynamic Daphnia (<i>Daphnia magna</i>) EC50 – 13,299 mg/l – 48h Algae (<i>Desmodesmus subspicatus</i>) – LC50 – > 1,000 mg/l – 72h
Orthophosphoric acid	Fish wild guppy (<i>Gambusia affinis</i>) LC50 – 138 mg/l – 96h Daphnia (<i>Daphnia magna</i>) EC50 – 100 mg/l – 48h – static Algae (<i>Desmodesmus subspicatus</i>) – EC50r – 100 mg/l – 72h - static

B. MIXTURE

No data available.

12.2 Persistence and degradability

A. COMPONENTS

Propan-2-ol	Aerobic biodegradability – Exposure time 21d Result: 95%: Readily biodegradable
Orthophosphoric acid	No data available.

B. MIXTURE

No data available.

12.3 Bioaccumulative potential

A. COMPONENTS

Propan-2-ol	Partition coefficient: n-octanol/water Log Pow : 0.05 Does not significantly accumulate in organisms. Bioaccumulation is not expected.
Orthophosphoric acid	No data available.

B. MIXTURE

No data available.

12.4 Mobility in soil**A. COMPOSANTS**

Propan-2-ol	No data available. Likely to be mobile in the environment due to its volatility.
Orthophosphoric acid	No data available. Likely to be mobile in the environment due to its solubility in water.

B. MIXTURE

No data available.

12.5 Results of PBT & vPvB assessment**A. COMPONENTS**

Propan-2-ol	Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).
Orthophosphoric acid	

B. MIXTURE

No data available.

12.6 Other adverse effect

Avoid release to the environment.

Section 13 – Disposal considerations**13.1 Waste treatment methods**

Dispose of product and container as hazardous waste. Dispose in accordance with European directives on waste and hazardous waste. Dispose of in accordance with local regulations.




Product/packaging disposal

Dispose of contents and container to an approved waste disposal plant for hazardous waste. Do not release to sewage system. Empty containers contain product residue (liquid or vapor) and may be dangerous. Handle contaminated packages in the same way as the substance itself. Keep product and empty container away from heat and ignition sources.

Waste Disposal Legislation Ref.No. (EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Section 14 – Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3(8) 	3(8) 	3(8) 
14.4 Packing group	II	II	II
14.5 Environmental hazard	No	No	No

Hazchem code 3WE.

14.6 Special precautions for user

Transport with local users: always transport in packaging that is correct and secure. Ensure that persons transporting the product are aware of the measures to be taken if an accident occurs or in case of accidental release.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not available.

Section 15 – Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe EU and national regulations. For labelling information, please refer to section 2.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III): Not applicable.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out by the manufacturer for this product.

Section 16 – Other information
Product

The information provided in this document is based on our knowledge at the date of its publication. The properties of the product described do not constitute a warranty in the legal sense of the term. The provision of this document does not release the purchaser of the product from his responsibility to comply with legislations and regulations in force for this product. This statement applies for the

resale and distribution of the product, or of substances or goods containing this product, in other jurisdictions and having regard to the industrial and commercial property rights of third parties. If the product described is transformed or mixed with other substances or materials, the information contained in this document may not be valid for the new product thus manufactured, unless explicitly mentioned. In case of repackaging of the product, the customer is required to provide the required safety information.

Legend

CAS	Chemical Abstracts Service
ppm	part per million
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
EC50	Effective Concentration 50%
vPvB	very Persistent and very Bioaccumulative
WEL	Workplace Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
DNEL	Derived No-Effect Level
PNEC	Predicted No-Effect Concentration
REACH	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemical
CLP	Regulation on Classification, Labelling and Packaging of substances and mixtures
ADR/RID	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
Flam. Liq.	Flammable liquid
STOT SE	Specific target organ toxicity - single exposure
Eye Irrit.	Eye irritation
Skin Corr.	Skin corrosion