

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

### 1.1 Product identifier

**PMX – Primer/Activator, PMX 4924**

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

#### 1.2.1 Relevant uses

Primer

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

**Company** Voelkel Industrie Produkte GmbH  
Frauenstrasse 31  
82216 Maisach / GERMANY  
Phone +49 (0) 8141 35 549 0  
Fax +49 (0) 8141 35 549 99  
Homepage [www.vip-gmbh.com](http://www.vip-gmbh.com)  
E-mail [info@vip-gmbh.com](mailto:info@vip-gmbh.com)

#### Address enquiries to

**Technical information** [info@vip-gmbh.com](mailto:info@vip-gmbh.com)

**Safety Data Sheet** [sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

### 1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (english)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.  
Eye Irrit. 2: H319 Causes serious eye irritation.  
STOT SE 3: H336 May cause drowsiness or dizziness.

#### 2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

F+, Extremely flammable - R 12: Extremely flammable.  
Xi, Irritant - R 36: Irritating to eyes.  
R 66: Repeated exposure may cause skin dryness or cracking.  
R 67: Vapours may cause drowsiness and dizziness.

## 2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

### Labelling according to Regulation (EC) 1272/2008

#### Hazard pictograms



#### Signal word

DANGER

#### Contains:

Ethyl acetate

#### Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
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.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.  
P261 Avoid breathing vapours/spray.  
P280 Wear eye protection/face protection.

#### Special labelling

EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH205 Contains epoxy constituents. May produce an allergic reaction.  
Build-up of explosive mixtures possible without sufficient ventilation.

## 2.3 Other hazards

#### Physico-chemical hazards

Heat causes increase in pressure and risk of bursting.

#### Human health dangers

Has a degreasing effect on the skin.  
Frequent persistent contact with the skin can cause dermatitis.

#### Other hazards

Further hazards were not determined with the current level of knowledge.

### SECTION 3: Composition / Information on ingredients

**Product-type:**

The product is a mixture.

Range [%]	Substance
25 - < 50	Ethyl acetate CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, ECB-Nr.: 01-2119475103-46-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 EEC: F-Xi, R 11-36-66-67
20 - < 25	Propane CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5, ECB-Nr.: 01-2119486944-21-XXXX GHS/CLP: Flam. Gas 1: H220 - Press. Gas (*): H280 EEC: F+, R 12
12,5 - < 20	Butane CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, ECB-Nr.: 01-2119474691-32-XXXX GHS/CLP: Flam. Gas 1: H220 - Press. Gas (*): H280 EEC: F+, R 12
5 - < 10	n-Butyl acetate CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, ECB-Nr.: 01-2119485493-29-XXXX GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336 EEC: R 10-66-67
5 - < 10	Xylene, mixture of isomers CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, ECB-Nr.: 01-2119488216-32-XXXX GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332 - Acute Tox. 4: H312 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Asp. Tox. 1: H304 - STOT SE 3: H335 - STOT RE 2: H373 EEC: Xn-Xi, R 10-20/21-36/37/38-48/20-65
5 - < 10	iso-Butane CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0, ECB-Nr.: 01-2119485395-27-XXXX GHS/CLP: Flam. Gas 1: H220 - Press. Gas (*): H280 EEC: F+, R 12

**Comment on component parts**

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.  
 For full text of H-statements and R-phrases: see SECTION 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**

**General information**

Take off contaminated clothing and wash before reuse.

**Inhalation**

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

**Skin contact**

In case of contact with skin wash off immediately with soap and water.  
 Consult a doctor if skin irritation persists.

**Eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.

**Ingestion**

Rinse out mouth and give plenty of water to drink.  
 Seek medical advice.

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

None known.

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Foam, dry powder, water spray jet, carbon dioxide.
<b>Extinguishing media that must not be used</b>	Full water jet.

### 5.2 Special hazards arising from the substance or mixture

Bursting aerosols can be forcibly projected from a fire.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Do not inhale explosion and/or combustion gases.  
Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting 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

Keep away from all sources of ignition.  
Ensure adequate ventilation.  
Use personal protective equipment.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically.  
Take up residues with absorbent material (e.g. sand).  
Dispose of absorbed material in accordance with the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
Avoid spraying in enclosed areas.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.  
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.  
Do not eat, drink, smoke or take drugs at work.  
Take off contaminated clothing and wash before reuse.  
Wash hands before breaks and after work.  
Use barrier skin cream.

### 7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.  
Do not store together with oxidizing agents.  
Do not store together with food and animal food/diet.  
Protect from heat/overheating and from sun.  
Keep in a cool place, heat causes increase in pressure and risk of bursting.  
Keep container in a well-ventilated place.



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**7.3 Specific end use(s)**

See product use, SECTION 1.2

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
5 - < 10	Xylene, mixture of isomers
	CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, ECB-Nr.: 01-2119488216-32-XXXX
	Long-term exposure: 50 ppm, 220 mg/m <sup>3</sup> , Sk, BMGV
	Short-term exposure (15-minute): 100 ppm, 441 mg/m <sup>3</sup>
5 - < 10	iso-Butane
	CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0, ECB-Nr.: 01-2119485395-27-XXXX
	Long-term exposure: 600 ppm, 1450 mg/m <sup>3</sup> , (Butane)
	Short-term exposure (15-minute): 750 ppm, 1810 mg/m <sup>3</sup>
5 - < 10	n-Butyl acetate
	CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, ECB-Nr.: 01-2119485493-29-XXXX
	Long-term exposure: 150 ppm, 724 mg/m <sup>3</sup>
	Short-term exposure (15-minute): 200 ppm, 966 mg/m <sup>3</sup>
25 - < 50	Ethyl acetate
	CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, ECB-Nr.: 01-2119475103-46-XXXX
	Long-term exposure: 200 ppm
	Short-term exposure (15-minute): 400 ppm
12,5 - < 20	Butane
	CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, ECB-Nr.: 01-2119474691-32-XXXX
	Long-term exposure: 600 ppm, 1450 mg/m <sup>3</sup>
	Short-term exposure (15-minute): 750 ppm, 1810 mg/m <sup>3</sup>

#### Ingredients with occupational exposure limits to be monitored (EU)

Range [%]	Substance / EC LIMIT VALUES
5 - < 10	Xylene, mixture of isomers
	CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, ECB-Nr.: 01-2119488216-32-XXXX
	Eight hours: 50 ppm, 221 mg/m <sup>3</sup> , H
	Short-term (15-minute): 100 ppm, 442 mg/m <sup>3</sup>

#### DNEL

Range [%]	Substance	
25 - < 50	Ethyl acetate, CAS: 141-78-6	
	Industrial, inhalative, Long-term - systemic effects: 734 mg/m <sup>3</sup> .	
	Industrial, inhalative, Long-term - local effects: 734 mg/m <sup>3</sup> .	
	Industrial, inhalative, Acute - systemic effects: 1468 mg/m <sup>3</sup> .	
	Industrial, inhalative, Acute - local effects: 1468 mg/m <sup>3</sup> .	
	Industrial, dermal, Long-term - systemic effects: 63 mg/kg bw/d.	
	general population, dermal, Long-term - systemic effects: 37 mg/kg bw/d.	
	general population, inhalative, Acute - local effects: 734 mg/m <sup>3</sup> .	
	general population, inhalative, Acute - systemic effects: 734 mg/m <sup>3</sup> .	
	general population, inhalative, Long-term - local effects: 367 mg/m <sup>3</sup> .	
	general population, oral, Long-term - systemic effects: 4,5 mg/kg bw/d.	
	general population, inhalative, Long-term - systemic effects: 367 mg/m <sup>3</sup> .	
	5 - < 10	Xylene, mixture of isomers, CAS: 1330-20-7
		Industrial, inhalative, Long-term - systemic effects: 77 mg/m <sup>3</sup> .
Industrial, inhalative, Acute - systemic effects: 289 mg/m <sup>3</sup> .		

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Industrial, inhalative, Acute - local effects: 289 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 180 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 14,8 mg/m <sup>3</sup> .
general population, inhalative, Acute - systemic effects: 174 mg/m <sup>3</sup> .
general population, inhalative, Acute - local effects: 174 mg/m <sup>3</sup> .
general population, dermal, Long-term - systemic effects: 108 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 1,6 mg/kg bw/day.

**PNEC**

Range [%]	Substance
25 - < 50	Ethyl acetate, CAS: 141-78-6
	sewage treatment plants (STP), 650 mg/l.
	soil, 0,22 mg/kg.
	sediment (seaater), 0,034 mg/kg.
	sediment (freshwater), 0,34 mg/kg.
	seawater, 0,026 mg/l.
	freshwater, 0,26 mg/l.
5 - < 10	Xylene, mixture of isomers, CAS: 1330-20-7
	soil, 2,31 mg/kg soil dw.
	sediment (seaater), 12,46 mg/kg sediment dw.
	sediment (freshwater), 12,46 mg/kg sediment dw.
	sewage treatment plants (STP), 6,58 mg/l.
	seawater, 0,327 mg/l.
	freshwater, 0,327 mg/l.

**8.2 Exposure controls**

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	If there is a risk of splashing: Safety glasses.
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: Butyl rubber, >480 min (EN 374). In splash contact butyl rubber, > 120 min (EN 374)
<b>Skin protection</b>	Solvent-resistant protective clothing.
<b>Other</b>	Do not inhale aerosols. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Not required under normal conditions. If ventilation insufficient, wear respiratory protection. Short term: filter apparatus, combination filter A-P2.
<b>Thermal hazards</b>	See SECTION 7.
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	aerosol
Color	grey
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	1,5 Vol. %
Upper explosion limit	11,5 Vol. %
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	830 (20°C)
Density [g/ml]	0,77 (20 °C / 68,0 °F)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	not applicable
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.  
Heat causes increase in pressure and risk of bursting.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

### 10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.  
Avoid temperatures above 50°C.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.



## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Range [%]	Substance
12,5 - < 20	Butane, CAS: 106-97-8
	LC50, inhalative, Rat: 658 mg/L (IUCLID).
20 - < 25	Propane, CAS: 74-98-6
	LC50, inhalative, Rat: > 1443 mg/l (15 min) (Lit.).
5 - < 10	n-Butyl acetate, CAS: 123-86-4
	LD50, dermal, Rabbit: > 17600 mg/kg.
	LD50, oral, Rat: 13100 mg/kg.
	LC50, inhalative, Rat: > 21 mg/l.
25 - < 50	Ethyl acetate, CAS: 141-78-6
	LD50, dermal, Rabbit: >20000 mg/kg bw.
	LD50, oral, Rat: 5620 mg/kg bw.
	LC50, inhalative, Rat: 58 mg/l (8 h).
5 - < 10	Xylene, mixture of isomers, CAS: 1330-20-7
	LD50, oral, Rat: >2000 - 5000 mg/kg bw.
	LC50, inhalativ (vapour ), Rat: 11 mg/L (4h).

<b>Serious eye damage/irritation</b>	not determined
<b>Skin corrosion/irritation</b>	not determined
<b>Respiratory or skin sensitisation</b>	not determined
<b>Specific target organ toxicity — single exposure</b>	not determined
<b>Specific target organ toxicity — repeated exposure</b>	not determined
<b>Mutagenicity</b>	not determined
<b>Reproduction toxicity</b>	not determined
<b>Carcinogenicity</b>	not determined
<b>General remarks</b>	

Toxicological data of complete product are not available.  
 The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

## SECTION 12: Ecological information

### 12.1 Toxicity

Range [%]	Substance
5 - < 10	n-Butyl acetate, CAS: 123-86-4
	LC50, (96h), Leuciscus idus: 62 mg/l (DIN 38412).
	EC50, Pseudomonas putida: 959 mg/l (18 h).
	EC50, (72h), Desmodesmus subspicatus: 675 mg/l.
	EC50, (24h), Daphnia magna: 72,8 mg/l (DIN 38412).
25 - < 50	Ethyl acetate, CAS: 141-78-6
	LC50, (96h), Pimephales promelas: 230 mg/l.
	EC50, (48h), Desmodesmus subspicatus: 5600 mg/L.
	EC50, (48h), Daphnia magna: 165 mg/L.
	NOEC, (72h), Desmodesmus subspicatus: >100 mg/L.
	NOEC, (21d), Daphnia magna: 2,4 mg/L.
5 - < 10	Xylene, mixture of isomers, CAS: 1330-20-7
	LC50, (96h), Pimephales promelas: 26,07 mg/L.
	EC50, (48h), Daphnia magna: 1 mg/L.
	IC50, (72h), Algae: 2,2 mg/L.

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not applicable
<b>Biological degradability</b>	not applicable

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Do not discharge product unmonitored into the environment or into the drainage.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. 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.

#### Product

Dispose of as hazardous waste.

#### Waste no. (recommended)

160504\* gases in pressure containers (including halons) containing dangerous substances

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

#### Waste no. (recommended)

150104

150110\*

## SECTION 14: Transport information

### 14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

### 14.2 UN proper shipping name

Transport by land according to ADR/RID UN 1950 AEROSOLS 2.1

- Classification Code

5F

- Label



- ADR LQ

1 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN)

UN 1950 AEROSOLS 2.1

- Classification Code

5F

- Label



Marine transport in accordance with IMDG UN 1950 Aerosols 2.1 -

- EMS

F-D, S-U

- Label



- IMDG LQ

1 I

Air transport in accordance with IATA UN 1950 Aerosols, flammable 2.1

- Label



### 14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

### 14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

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#### 14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

### SECTION 15: Regulatory information

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

<b>EEC-REGULATIONS</b>	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
<b>TRANSPORT-REGULATIONS</b>	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
<b>NATIONAL REGULATIONS (GB):</b>	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
<b>- Observe employment restrictions for people</b>	Observe employment restrictions for young people.
<b>- VOC (1999/13/CE)</b>	754,5 g/l

#### 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### 16.1 R-phrases (SECTION 3)

R 11: Highly flammable.  
R 36: Irritating to eyes.  
R 66: Repeated exposure may cause skin dryness or cracking.  
R 67: Vapours may cause drowsiness and dizziness.  
R 12: Extremely flammable.  
R 10: Flammable.  
R 20/21: Harmful by inhalation and in contact with skin.  
R 36/37/38: Irritating to eyes, respiratory system and skin.  
R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.  
R 65: Harmful - may cause lung damage if swallowed.

#### 16.2 Hazard statements (SECTION 3)

H373 May cause damage to organs through prolonged or repeated exposure.  
H335 May cause respiratory irritation.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H226 Flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H220 Extremely flammable gas.  
H336 May cause drowsiness or dizziness.  
H319 Causes serious eye irritation.  
H225 Highly flammable liquid and vapour.

### 16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
ELINCS = European List of Notified Chemical Substances  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
TLV®/TWA = Threshold limit value – time-weighted average  
TLV®STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

### 16.4 Other information

#### Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229  
Pressurised container: May burst if heated. (Bridging principle "Aerosols")  
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)  
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

#### Modified position

none



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