

Printing date 08/24/2016

Reviewed on 11/11/2015

*** 1 PRODUCT AND COMPANY IDENTIFICATION**

- **Product identifier**
- **Trade name: EZ Seal Single Ply (EPDM/TPO) Primer**
- **Article number:** 781-1
- **Application of the substance / the mixture:** Priming.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Malarkey Roofing Products
3131 N. Columbia Blvd., Portland, OR 97217-7472
P.O. Box 17217, Portland, OR 97217-0217
USA
Toll Free: 800-545-1191 Fax: 503-289-7644
www.malarkeyroofing.com
- **Technical contact:**
Matthew Felt
Technical Services Manager
Tel.: 503-283-1191
E-Mail: mfelt@malarkeyroofing.com
- **Emergency telephone number:**

For Chemical Emergency,
Spill Leak, Fire Exposure or Accident
Call CHEMTREC Day or Night

DOMESTIC NORTH AMERICA 800-424-9300
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

*** 2 HAZARD(S) IDENTIFICATION**

- **Classification of the substance or mixture**



Highly flammable liquid and vapor



Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.



Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.

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Label elements**GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms**Signal word:** Danger**Hazard-determining components of labeling:**

toluene

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers

xylene

n-butyl acetate

Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

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

Wear protective gloves / eye protection.

Do not breathe mist/vapors/spray.

If on skin (or hair): Remove all contaminated clothing immediately. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Classification system:**NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 3

Reactivity = 0

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· HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = *1
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

· Other hazards
· Results of PBT and vPvB assessment
· PBT: Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).

· vPvB: Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

3 COMPOSITION / INFORMATION ON INGREDIENTS

· Chemical characterization: Mixtures
· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 108-88-3 Index number: 601-021-00-3	toluene	50-100%
CAS: 123-86-4 Index number: 607-025-00-1	n-butyl acetate	10-<25%
CAS: 1330-20-7 Index number: 601-022-00-9	xylene	2.5-<10%
CAS: 123-42-2 Index number: 603-016-00-1	4-hydroxy-4-methylpentan-2-one	2.5-<10%
CAS: 110-82-7 Index number: 601-017-00-1	cyclohexane	0.1-≤2.5%
CAS: 53880-05-0	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	1-≤2.5%
	hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, cyclic compounds, aromatics (2-25%)	0.1-≤2.5%

* 4 FIRST-AID MEASURES

· Description of first aid measures
· General information:

Immediately remove any clothing soiled by the product.

Take affected persons out of the danger area and have them lay down.

Symptoms of poisoning may even occur after several hours; therefore medical observation is necessary for at least 48 hours after the accident.

Involve a doctor immediately.

· After inhalation:

In case of unconsciousness, place patient on their side for transportation. Take affected persons into fresh air, and keep them calm and quiet.

Seek medical treatment.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing: Do not induce vomiting; immediately call for medical help.

· Information for doctor:
· Most important symptoms and effects, both acute and delayed

Headache

Dizziness

Skin sensitization.

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Irritant to skin, eyes and respiratory system.

* 5 FIRE-FIGHTING MEASURES

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder, foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **Special hazards arising from the substance or mixture**
Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
- **Advice for firefighters**
- **Protective equipment:**
Wear fully protective suit.
Wear self-contained respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire-fighting water separately. It must not enter the sewage system.

6 ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures:**
Ensure adequate ventilation.



Keep away from ignition sources

Use respiratory protective devices against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**
Do not allow to enter sewers, surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Do not flush with water or aqueous cleansing agents.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.

* 7 HANDLING AND STORAGE

- **Handling:**
- **Precautions for safe handling**
Keep cool and protect from heat, especially closed containers, because polymerization and pressure rise will occur with heat. In case of fire, immerse closed containers in water.
Do not refill residue into storage receptacles.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Provide at least 7 air changes per hour.
Prevent formation of aerosols.

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- **Information about protection against explosions and fires:**
Highly volatile, flammable constituents are released during processing.
Keep ignition sources away - Do not smoke.
Fumes can combine with air to form an explosive mixture.
Only explosion-proof equipment.
Protect against electrostatic charges.
Protect from heat.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Store in a cool location.
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well-sealed receptacles. Max. storage temperature is 30°C.
Storage in a collecting room is required.
Store in an area restricted to authorized personnel.
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
- **Specific end use(s)** Building coating or sealing.

* 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· Components with limit values that require monitoring at the workplace:

108-88-3 toluene (50-100%)

PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 75 mg/m ³ , 20 ppm BEI

123-86-4 n-butyl acetate (10-<15%)

PEL	Long-term value: 710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 712 mg/m ³ , 150 ppm Long-term value: 238 mg/m ³ , 50 ppm

1330-20-7 xylene (2.5-<10%)

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI

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123-42-2 4-hydroxy-4-methylpentan-2-one (2.5-<10%)PEL Long-term value: 240 mg/m³, 50 ppmREL Long-term value: 240 mg/m³, 50 ppmTLV Long-term value: 238 mg/m³, 50 ppm**110-82-7 cyclohexane (1-<2.5%)**PEL Long-term value: 1050 mg/m³, 300 ppmREL Long-term value: 1050 mg/m³, 300 ppmTLV Long-term value: 344 mg/m³, 100 ppm· **Ingredients with biological limit values:****108-88-3 toluene (50-100%)**

BEI 0.02 mg/L
 Medium: blood
 Time: prior to last shift of workweek
 Parameter: Toluene

0.03 mg/L
 Medium: urine
 Time: end of shift
 Parameter: Toluene

0.3 mg/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: o-Cresol with hydrolysis (background)

1330-20-7 xylene (2.5-<10%)

BEI 1.5 g/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: Methylhippuric acids

· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Avoid contact with the eyes and skin.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Keep away from foodstuffs, beverages and feed.
 Do not inhale gases / fumes / aerosols.

· **Breathing equipment:**

Ensure good ventilation.
 In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure, use a respiratory protective device that is independent of circulating air.
 The use of a respiratory protective hood is recommended because lacking one, time limitations apply.

· **Protection of hands:**

Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves

After use of gloves apply skin-cleansing agents and skin cosmetics.

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Selection of the glove material should consider penetration times, rates of diffusion and degradation.

· **Material of gloves**

The selection of suitable gloves not only depends on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and should be checked prior to application. Protective gloves meeting EN 674, such as nitrile gloves, are recommended.

· **Penetration time of glove material**

Recommended for one-time use as short-term protection against liquid splashes. For other applications, you should contact a glove manufacturer.

The exact break-through time is likely listed with the manufacturer of the protective gloves and must be observed.

· **For permanent contact in work areas without heightened risk of injury (e.g., Laboratory) gloves made of the following material are suitable:**

Butyl rubber, BR

· **Not suitable are gloves made of the following materials:** Leather gloves

· **Eye protection:**



Tightly sealed goggles

· **Body protection:**



Protective work clothing

* 9 PHYSICAL AND CHEMICAL PROPERTIES

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid

Color: Yellowish

· **Odor:** Like aromatic solvents

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 81 °C (178 °F) (Cyclohexan)

· **Flash point:** -18 °C (-0 °F) (Cyclohexan)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 370 °C (698 °F) (n-Butylacetat)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

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· Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	1.2 Vol % (n-Butylacetat, Toluol)
Upper:	7.5 Vol % (n-Butylacetat)
· Vapor pressure at 20 °C (68 °F):	29 hPa (22 mm Hg) (Toluol)
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	10 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	87.6 %
VOC content:	87.6 %
	876.2 g/l / 7.31 lb/gl
· Other information	No further relevant information available.

10 STABILITY AND REACTIVITY

- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
Exothermic reaction.
Reacts with acids, alkalis and oxidizing agents.
- **Conditions to avoid** Avoid heat. Avoid direct sunlight.
- **Incompatible materials:** Reacts with peroxides and other reducing agents.
- **Hazardous decomposition products:**
No dangerous decomposition products used according to specifications.
- **Additional information:**
Emergency procedures will vary depending on individual circumstances. The customer should have a contingency plan in place.

*11 TOXICOLOGICAL INFORMATION

- **Information on toxicological effects** There were no toxicological findings to the mixture.
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	4919 mg/kg (rat)
Dermal	LD50	17883 mg/kg (rabbit)
Inhalative	LC50/4h	37.6 mg/l (rat)

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108-88-3 toluene		
Oral	LD50	5000 mg/kg (rat)
Dermal	LC50	12124 mg/kg (hare)
Inhalative	LC50/4h	5320 mg/l (mouse)
123-86-4 n-butyl acetate		
Oral	LD50	14000 mg/kg (rat)
Dermal	LC50	> 5000 mg/kg (hare)
Inhalative	LC50/4h	> 21.0 mg/l (rat)
1330-20-7 xylene		
Oral	LD50	> 2000 mg/kg (rat)
Dermal	LC50	> 2000 mg/kg (hare)
	LD50	> 1700 mg/kg (rabbit)
Inhalative	LC50/4h	5 mg/l (rat)
123-42-2 4-hydroxy-4-methylpentan-2-one		
Oral	LD50	4000 mg/kg (rat)
Dermal	LC50	13630 mg/kg (rab)
110-82-7 cyclohexane		
Oral	LD50	12700 mg/kg (rat) Toxicology and Applied Pharmacology. Vol. 19, Pg. 699, 1971.
53880-05-0 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers		
Oral	LD50	> 20.000 mg/kg (rat) (OECD TG 401)
Dermal	LD50	> 7000 mg/kg (rat) (OECD-Test Guideline 402)
Inhalative	LC50/4h	> 5.01 mg/l (rat) (OECD-Test Guideline 403) Test substance: als Aerosol

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Other information (about experimental toxicology):**
Due to the high vapor pressure, a harmful concentration in the air can quickly be reached. High concentrations can product a narcotic effect.
- **Subacute to chronic toxicity:** Not tested.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

108-88-3	toluene	3
1330-20-7	xylene	3

- **NTP (National Toxicology Program)**

None of the ingredients are listed.

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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

*12 ECOLOGICAL INFORMATION

· **Toxicity**

· **Aquatic toxicity:**

123-86-4 n-butyl acetate

EC50/24h	73 mg/l (daphnia magna)
EC50/72h	674 mg/l (Scenedesmus quadricauda)
LC50/48h	64 mg/l (Danio rerio)

1330-20-7 xylene

LC/EC/IC50	1<EC50≤10 mg/l (aquatic organisms)
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110-82-7 cyclohexane

LC50/96h	4.53 - 610 mg/l (fish) Gestis 06/2012 Pickering, Q.H., and C. Henderson 1966. Acute Toxicity of Some Important Petrochemicals to Fish. J. Water Pollut. Control Fed. 38(9):1419-1429
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53880-05-0 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers

EC50	> 10000 mg/l (activated sludge) (Prüfdauer 3h; OECD-Prüfrichtlinie 209)
EC50/24h	> 3.36 mg/l (daphnia magna)
EC50/48h	35 mg/l (daphnia magna) (Geprüft nach 92/69/EWG)
EC50/72h	> 3.1 mg/l (alga)

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms.

· **Results of PBT and vPvB assessment**

· **PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).

· **vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

· **Other adverse effects** No further relevant information available.

*13 DISPOSAL CONSIDERATIONS

· **Waste treatment methods**

Hazardous waste according to Waste Catalogue (EWC). If recycling is not possible, waste must be in compliance with local regulations to be removed.

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· **Recommendation:**

Uncured product residues are special waste.

Cured product residues are not hazardous waste.

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:**

This material and its container must be disposed of as hazardous waste.

Disposal must be made according to official regulations.

*14 TRANSPORT INFORMATION

· UN-Number · DOT, ADR, IMDG, IATA	UN1263
· UN proper shipping name · DOT · ADR · IMDG, IATA	Paint 1263 Paint, special provision 640D PAINT
· Transport hazard class(es) · DOT	
	
· Class · Label	3 Flammable liquids 3
· ADR, IMDG, IATA	
	
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, ADR, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Danger code (Kemler): · EMS Number: F-E,S-E	Warning: Flammable liquids 33 Stowage category: B
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN1263, Paint, special provision 640D, 3, II

*15 REGULATORY INFORMATION

- Safety, health and environmental regulations/legislation specific for the substance or mixture:
- SARA.

· **Section 355 (extremely hazardous substances):**

4098-71-9	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
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· **Section 313 (Specific toxic chemical listings):**

108-88-3	toluene
1330-20-7	xylene
110-82-7	cyclohexane
4098-71-9	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

· **TSCA (Toxic Substances Control Act):**

108-88-3	toluene
123-86-4	n-butyl acetate
1330-20-7	xylene
123-42-2	4-hydroxy-4-methylpentan-2-one
110-82-7	cyclohexane
53880-05-0	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers
4098-71-9	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

108-88-3	toluene
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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

108-88-3	toluene
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· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

108-88-3	toluene	II
1330-20-7	xylene	I
110-82-7	cyclohexane	I

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· TLV (Threshold Limit Value established by ACGIH)		
108-88-3	toluene	A4
1330-20-7	xylene	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients are listed.		

· **National regulations:**· **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*16 OTHER INFORMATION

These figures relate to the product as delivered.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Sector of Use

Relevant identified uses of the mixture

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

SU21 Consumer uses: Private households / general public / consumers

· **Training hints**

Knowledge of hazards and precautions is necessary for handling and use of these chemicals (Technical Rule 555). Instruction must take place before the start of employment and annually thereafter.

· **Department issuing SDS:** Division product safety· **Date of preparation / last revision** 08/24/2016 / 18· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Skin Sens. 1: Sensitization - Skin, Hazard Category 1

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

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· **Sources**

www.gestis.de

www.echa.eu

logkow.cisti.nrc.ca

· * **Data compared to the previous version altered.**

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