



Safety Data Sheet

acc. to OSHA HCS

Printing date 03/09/2015

Reviewed on 03/09/2015

1 Identification

- Product identifier
- Trade name: **KRISTAL HS Hardener USC Fast**
- Article number: 8241
- Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- Application of the substance / the mixture Hardening agent/ Curing agent
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Kristal Coatings B.V.
Platinawerf 22B
6641 TL Beuningen - Holland
Tel: 0031 24 67 526 36
Fax: 0031 24 67 533 60
- Information department: Product safety department: info@kristalcoatings.nl
- Emergency telephone number:
National Poisoning Information Centre - Bilthoven - The Netherlands
T +31 (0)30 274 88 88
Restricted to physicians for information on ingredients.

2 Hazard(s) identification

- Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalative.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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



Harmful

Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.



Irritant

Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.



Highly flammable

Highly flammable.

Harmful to aquatic organisms.

- Information concerning particular hazards for human and environment:
The product has to be labeled due to the calculation procedure of international guidelines.
- Classification system:
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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- Label elements
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



GHS02

GHS07

GHS08

- Signal word Danger
- Hazard-determining components of labeling:
Hexane, 1,6-diisocyanato-, homopolymer
toluene
ethylbenzene
xylene
- Hazard statements
Highly flammable liquid and vapor.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalative.
May be fatal if swallowed and enters airways.
- Precautionary statements
Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe mist/vapours/spray.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If swallowed: Rinse mouth. Do NOT induce vomiting.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 1
Fire = 3
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = *1
Fire = 3
Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.
- Dangerous components:

CAS: 28182-81-2 Hexane, 1,6-diisocyanato-, homopolymer
Polymer
Reg.nr.: 01-2119485796-17

25-50%

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CAS: 98-56-6 EINECS: 202-681-1 Reg.nr.: 1735902	4-chloro-alpha,alpha,alpha-trifluorotoluene	25-50%
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51 01-2116601980-50 17-2119453989-16 05-211538126-46	toluene	10-25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32 01-2119486136-34 01-2119555267-33	xylene	2.5-10%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49 05-2114366599-29	acetone	2.5-10%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene	0.5-2.5%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom.	0.5-2.5%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate	0.5-2.5%
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51 01-2116601980-50 17-2119453989-16 05-211538126-46	toluene	≤ 0.5%
CAS: 4083-64-1 EINECS: 223-810-8	4-isocyanatosulphonyltoluene	≤ 0.5%

4 First-aid measures

- Description of first aid measures
- General information:
 - Immediately remove any clothing soiled by the product.
 - Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation:
 - Supply fresh air and to be sure call for a doctor.
 - In case of unconsciousness place patient stably in side position for transportation.
- 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.
 - Remove contactlenses.
- After swallowing:
 - Do not induce vomiting; immediately call for medical help.
 - Rinse out mouth and then drink plenty of water.
- Information for doctor:
 - Most important symptoms and effects, both acute and delayed No further relevant information available.
 - Indication of any immediate medical attention and special treatment needed
 - No further relevant information available.



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5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: CO₂ or powder. Fight larger fights with alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture Carbon monoxide (CO)
- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- Handling:
- Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.
Examination of lung function should be carried out on a regular basis on persons spraying this preparation.
- Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions:
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- Storage class: 3
- Specific end use(s) No further relevant information available.

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

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/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm

TLV Long-term value: 75 mg/m³, 20 ppm
BEI

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1330-20-7 xylenePEL Long-term value: 435 mg/m³, 100 ppmREL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppmTLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI**67-64-1 acetone**PEL Long-term value: 2400 mg/m³, 1000 ppmREL Long-term value: 590 mg/m³, 250 ppmTLV Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm
Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm
BEI**100-41-4 ethylbenzene**PEL Long-term value: 435 mg/m³, 100 ppmREL Short-term value: 545 mg/m³, 125 ppm
Long-term value: 435 mg/m³, 100 ppmTLV Long-term value: 87 mg/m³, 20 ppm
BEI**123-86-4 n-butyl acetate**PEL Long-term value: 710 mg/m³, 150 ppmREL Short-term value: 950 mg/m³, 200 ppm
Long-term value: 710 mg/m³, 150 ppmTLV Short-term value: 950 mg/m³, 200 ppm
Long-term value: 713 mg/m³, 150 ppm**Ingredients with biological limit values:****108-88-3 toluene**

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

BEI 1.5 g/g creatinine

Medium: urine

Time: end of shift

Parameter: Methylhippuric acids

67-64-1 acetone

BEI 50 mg/L

Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

100-41-4 ethylbenzene

BEI 0.7 g/g creatinine

Medium: urine

Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

-

Medium: end-exhaled air

Time: not critical

Parameter: Ethyl benzene (semi-quantitative)

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Additional information:

The lists that were valid during the creation were used as basis.

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.

Examination of lung function should be carried out on a regular basis on persons spraying this preparation.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Filter AX

Protection of hands:



Protective gloves

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend 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 can not be calculated in advance and has therefore to be checked prior to the application.

Fluorocarbon rubber (Viton)

Penetration time of glove material

Thickness of the gloves ≥ 0.7 mm (toluene)

Value for the permeation: level ≥ 480 min (toluene)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

Body protection: Solvent resistant protective clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid

Color: Clear

Odor: Characteristic

Change in condition

Boiling point/Boiling range: 56 °C (133 °F)

Flash point: 2 °C (36 °F)

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 465 °C (869 °F)

Auto igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Explosion limits:

Lower: 1.1 Vol %

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Upper:	7.0 Vol %
· Vapor pressure at 20 °C (68 °F):	29 hPa (22 mm Hg)
· Density at 20 °C (68 °F):	1.08 g/cm ³ (9.013 lbs/gal)
· Solubility in / Miscibility with Water:	Insoluble.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	± 13 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	65.2 %
VOC content:	28.8 %
	275.0 g/l / 2.29 lb/gl
Solids content:	34.8 %
· Other information	No further relevant information available.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions
 - Reacts with alcohols.
 - Reacts with amines.
 - Reacts with water.
- Conditions to avoid No further relevant information available.
- Incompatible materials: Oxidizing agents.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- LD/LC50 values that are relevant for classification:

98-56-6 4-chloro-alpha,alpha,alpha-trifluorotoluene

Oral LD50 11500 mg/kg (mouse)
13000 mg/kg (rat)

108-88-3 toluene

Oral LD50 5580 mg/kg (rat)
Dermal LD50 > 5000 mg/kg (rabbit)
Inhalative LC50/4h 28.1 mg/l (rat)

1330-20-7 xylene

Oral LD50 3523 mg/kg (rat)
Dermal LD50 12126 mg/kg bw (rabbit)
Inhalative LC50/4h 27124 mg/m³ (rat)

67-64-1 acetone

Oral LD50 >2000 mg/kg (rat)
Dermal LD50 >2000 mg/kg (rabbit)
Inhalative LC50/4h > 20 mg/l (rat)

100-41-4 ethylbenzene

Oral LD50 3500 mg/kg (rat)
Dermal LD50 17800 mg/kg (rabbit)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral LD50 >6800 mg/kg (rat)

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Dermal LD50 >3400 mg/kg (rab)

Inhalative LC50/4h >10.2 mg/l (rat)

123-86-4 n-butyl acetate

Oral LD50 10760 mg/kg (rat) (OECD 423)

Dermal LD50 >14112 mg/kg (rabbit) (OECD 402)

Inhalative LC50/4h 23.4 mg/l (rat) (OECD 403 in vivo, aerosol)

108-88-3 toluene

Oral LD50 5580 mg/kg (rat)

Dermal LD50 > 5000 mg/kg (rabbit)

Inhalative LC50/4h 28.1 mg/l (rat)

4083-64-1 4-isocyanatosulphonyltoluene

Oral LD50 2600 mg/kg (rat)

· Primary irritant effect:

· on the skin: Irritant to skin and mucous membranes.

· on the eye: Irritating effect.

· Sensitization: Sensitization possible through skin contact.

· 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)

1330-20-7 xylene: 3

108-88-3 toluene: 3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

· Aquatic toxicity:

98-56-6 4-chloro-alpha,alpha,alpha-trifluorotoluene

IC50/72h 8 mg/l (algae)

LC50/96h 40-60 mg/l (fish)

108-88-3 toluene

EC50/3h 134 mg/l (Chlorella vulgaris)

EC50/48h 3.78 mg/l (daphnia magna)

EC50/72h 12.5 mg/l (algae)

LC50/96h 5.5 mg/l (Oncorhynchus kisutch)

5.5 mg/l (fish)

NOEC/72h 10 mg/l (Skeletonema costatum)

1330-20-7 xylene

EC50/48h 7.4 mg/l (daphnia magna)

IC50 1-10 mg/l (TISBE Marine copepod)

1-10 mg/l (algae)

> 100 mg/l (bacteria)

1-10 mg/l (fish)

NOAEL 0.1-1 mg/l (TISBE Marine copepod)

1-10 mg/l (fish)

67-64-1 acetone

EC50 8800 mg/l (daphnia magna)

EC50/96h 8300 mg/l (Iepomis macrochirus)

IC50 >100 mg/l (algae)

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>100 mg/l (fish)

100-41-4 ethylbenzene

EC50/24h >100 mg/l (daphnia magna)

123-86-4 n-butyl acetate

EC50/48h 44 mg/l (daphnia magna)

EC50/72h 647.7 mg/l (desmodesmus supspicatus)

IC50 356 mg/l (tetrahymena pyriformis) (40 h)

LC50/96h 18 mg/l (pimphales promelas) (OECD 203)

NOAEL/72h 200 mg/l (desmodesmus supspicatus)

108-88-3 toluene

EC50/3h 134 mg/l (Chlorella vulgaris)

EC50/48h 3.78 mg/l (daphnia magna)

EC50/72h 12.5 mg/l (algae)

LC50/96h 5.5 mg/l (Oncorhynchus kisutch)

5.5 mg/l (fish)

NOEC/72h 10 mg/l (Skeletonema costatum)

4083-64-1 4-isocyanatosulphonyltoluene

EC50 2511 mg/l (ac)

LC50/96h 597 mg/l (Brachydanio rerio)

· Persistence and degradability No further relevant information available.

· Degree of elimination:

123-86-4 n-butyl acetate

OECD 301D 83 % (l) (28 d)

· Behavior in environmental systems:

· Bioaccumulative potential

108-88-3 toluene

BCF 90 (l)

LogPow 2.73 (l)

108-88-3 toluene

BCF 90 (l)

LogPow 2.73 (l)

· 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

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

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

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number

· DOT, ADR, ADN, IMDG, IATA

UN1263

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- UN proper shipping name
- DOT
- ADR/ADN
- IMDG, IATA
- Transport hazard class(es)
- DOT

Paint related material
1263 Paint related material
PAINT RELATED MATERIAL



- Class
- Label

3 Flammable liquids
3

- ADR,ADN, IMDG, IATA



- Class
- Label
- Packing group
- DOT, ADR,ADN, IMDG, IATA
- Environmental hazards:
- Marine pollutant:
- Special precautions for user
- Danger code (Kemler):
- EMS Number:
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- UN "Model Regulation":

3 Flammable liquids
3
II
No
Warning: Flammable liquids
33
F-E,S-E
Not applicable.
UN1263, Paint related material, 3, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

- Section 313 (Specific toxic chemical listings):

1330-20-7 xylene

108-88-3 toluene

822-06-0 hexamethylene-di-isocyanate

- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65

- Chemicals known to cause cancer:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for females:

108-88-3 toluene

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

108-88-3 toluene

- Cancerogenity categories

- EPA (Environmental Protection Agency)

1330-20-7 xylene: I

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108-88-3 toluene: II

67-64-1 acetone: I

· TLV (Threshold Limit Value established by ACGIH)

1330-20-7 xylene: A4

108-88-3 toluene: A4

67-64-1 acetone: A4

77-58-7 dibutyltin dilaurate: A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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

· Hazard pictograms



GHS02

GHS07

GHS08

· Signal word Danger

· Hazard-determining components of labeling:

Hexane, 1,6-diisocyanato-, homopolymer

toluene

ethylbenzene

xylene

· Hazard statements

Highly flammable liquid and vapor.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalative.

May be fatal if swallowed and enters airways.

· Precautionary statements

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

Do not breathe mist/vapours/spray.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Other regulations, limitations and prohibitive regulations

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

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

16 Other information

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.

· Contact: Dhr. B. Peters

· Date of preparation / last revision 03/09/2015 / 1

· Abbreviations and acronyms:

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)

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LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Acute Tox. 4: Acute toxicity, Hazard Category 4
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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