

SAFETY DATA SHEET

JP-B82 (Multi-Language Label)

SECTION 1: Identification

1.1. Product identifier

TRADE NAME JP-B82 (Multi-Language Label)

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

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE Industrial purposes

USES ADVISED AGAINST None known.

1.3. Details of the supplier of the safety data sheet

COMPANY AND ADDRESS **Hitachi Industrial Equipment & Solutions America, LLC**
75 NW Point Blvd Suite D
60007 Elk Grove Village, IL
United States
+1 (800) 627-5464
<https://mc.hitachi-iesa.com>

SDS DATE 7/17/2025
SDS VERSION DATE OF PREVIOUS VERSION 1.0
7/15/2025 (1.0)

1.4. Emergency telephone number

+1 (800) 424-9300

SECTION 2: Hazard(s) identification

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.1. Classification of the substance or mixture

Flam. Liq. 2; H225, Highly flammable liquid and vapour.
Acute Tox. 4; H302, Harmful if swallowed.
Acute Tox. 4; H312, Harmful in contact with skin.
Eye Dam. 1; H318, Causes serious eye damage.
Acute Tox. 4; H332, Harmful if inhaled.
STOT SE 3; H336, May cause drowsiness or dizziness.
Carc. 2; H351, Suspected of causing cancer.
Repr. 1B; H360, May damage fertility or the unborn child.
STOT SE 1; H370, Causes damage to organs.

2.2. Label elements

HAZARD PICTOGRAM(S)



SIGNAL WORD Danger

HAZARD STATEMENT(S) Highly flammable liquid and vapour. (H225)
Harmful if swallowed, in contact with skin or if inhaled. (H302+H312+H332)
Causes serious eye damage. (H318)
May cause drowsiness or dizziness. (H336)

	<p>Suspected of causing cancer. (H351) May damage fertility or the unborn child. (H360) Causes damage to organs. (H370)</p>
PRECAUTIONARY STATEMENT(S)	
General	<p>If medical advice is needed, have product container or label at hand. (P101) Keep out of reach of children. (P102)</p>
Prevention	<p>Obtain special instructions before use. (P201) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210) Keep container tightly closed. (P233) Do not breathe vapour/mist. (P260) Wash hands and exposed skin thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271) Wear eye protection/protective gloves. (P280)</p>
Response	<p>IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. (P301+P312) IF ON SKIN: Wash with plenty of water and soap. (P302+P352) IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338) IF exposed or concerned: Call a POISON CENTER/doctor (P308+P311) IF exposed or concerned: Get medical advice/attention. (P308+P313) Immediately call a POISON CENTER/doctor. (P310) Specific treatment (see instructions on this label). (P321) In case of fire: Use water mist/carbon dioxide/alcohol-resistant foam to extinguish. (P370+P378)</p>
Storage	<p>Store in a well-ventilated place. Keep container tightly closed. (P403+P233) Store in a well-ventilated place. Keep cool. (P403+P235) Store locked up. (P405)</p>
Disposal	<p>Dispose of contents/container in accordance with local regulation. (P501)</p>
ADDITIONAL LABELLING	<p>Not applicable.</p>

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

PRODUCT/SUBSTANCE	IDENTIFIERS	% W/W	CLASSIFICATION	NOTE
Butanone	CAS No.: 78-93-3	25-40%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Repeated exposure may cause skin dryness or cracking	
methanol	CAS No.: 67-56-1	25-40%	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 (SCL: 10.00 %) STOT SE 2, H371 (SCL: 3.00 %)	
N-methyl-2-pyrrolidone;1-methyl-2-pyrrolidone	CAS No.: 872-50-4	3-5%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 (SCL: 10.00 %)	

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2024)

			Repr. 1B, H360	
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	CAS No.: 2530-83-8	1-3%	Eye Dam. 1, H318	
C.I. Basic Violet 3 with ≥ 0.1 % of Michler's ketone (EC no. 202-027-5)	CAS No.: 548-62-9	1-3%	Acute Tox. 4, H302 Eye Dam. 1, H318 Carc. 2, H351	
Ethyl acetate	CAS No.: 141-78-6	1-3%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Repeated exposure may cause skin dryness or cracking	
N-ethyl-o(or p)-toluenesulphonamide	CAS No.: 8047-99-2	1-3%		
Tetrabutylphosphonium bromide	CAS No.: 3115-68-2	<1%	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Sens. 1B, H317 Eye Dam. 1, H318 Repr. 2, H361fd	

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

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SECTION 4: First-aid measures

4.1. Description of first aid measures

GENERAL INFORMATION	If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
INHALATION	Upon breathing difficulties or irritation of the respiratory tract: Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.
SKIN CONTACT	Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.
EYE CONTACT	If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.
INGESTION	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
BURNS	Rinse with water until pain stops then continue to rinse for 30 minutes.

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

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.

In use may form flammable/explosive vapour-air mixture.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds

Nitrogen oxides (NO_x)

Carbon oxides (CO / CO₂)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ground and bond container and receiving equipment.
Use explosion-proof [electrical/lighting/ventilating] equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Avoid direct contact with the product.
Avoid contact during pregnancy and while nursing.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. ▼ Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Take action to prevent static discharges.
Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

RECOMMENDED STORAGE Keep only in original packaging.
MATERIAL

▼ LIQUID CLASS Flammable liquid / Class IB (NFPA 30)

STORAGE CONDITIONS Dry, cool and well ventilated

INCOMPATIBLE MATERIALS Reducing agents
Strong oxidizing agents

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Butanone

Short term exposure limit (STEL) (ACGIH TLV) (ppm): 300
Short term exposure limit (STEL) (NIOSH REL) (ppm): 300
Long term exposure limit (OSHA Table Z-1) (mg/m³): 590
Long term exposure limit (OSHA Table Z-1) (ppm): 200
Long term exposure limit (ACGIH TLV) (ppm): 200

methanol

Short term exposure limit (STEL) (ACGIH TLV) (ppm): 250
Short term exposure limit (STEL) (NIOSH REL) (ppm): 250
Long term exposure limit (OSHA Table Z-1) (mg/m³): 260
Long term exposure limit (OSHA Table Z-1) (ppm): 200
Long term exposure limit (ACGIH TLV) (ppm): 200

Ethyl acetate

Long term exposure limit (OSHA Table Z-1) (mg/m³): 1400
Long term exposure limit (OSHA Table Z-1) (ppm): 400
Long term exposure limit (ACGIH TLV) (ppm): 400

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

GENERAL Smoking, drinking and consumption of food is not allowed in the work area.

RECOMMENDATIONS

EXPOSURE SCENARIOS There are no exposure scenarios implemented for this product.

EXPOSURE LIMITS Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

APPROPRIATE TECHNICAL MEASURES The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

HYGIENE MEASURES	Apply standard precautions during use of the product. Avoid inhalation of vapours. In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.
MEASURES TO AVOID ENVIRONMENTAL EXPOSURE	Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

GENERALLY	Use only protective equipment with a recognized certification mark, e.g. the UL mark.
RESPIRATORY EQUIPMENT	No specific requirements.
SKIN PROTECTION	No specific requirements.
HAND PROTECTION	

MATERIAL	GLOVE THICKNESS (MM)	BREAKTHROUGH TIME (MIN.)	STANDARDS	
Butyl	0,3	> 240	EN374-2, EN16523-1, EN388	

EYE PROTECTION

TYPE	STANDARDS	
Safety glasses	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

PHYSICAL STATE	Liquid
COLOR	Purple
ODOR	Solvent
ODOR THRESHOLD (PPM)	No data available.
PH	No data available.
DENSITY (G/CM ³)	0.881
KINEMATIC VISCOSITY	No data available.
PARTICLE CHARACTERISTICS	Does not apply to liquids.

Phase changes

▼ MELTING POINT/FREEZING POINT (°F)	-
MELTING POINT/FREEZING POINT (°C)	-94.00
SOFTENING POINT/RANGE (°F)	Does not apply to liquids.
▼ BOILING POINT (°F)	-
▼ BOILING POINT (°C)	80
VAPOR PRESSURE	No data available.
RELATIVE VAPOR DENSITY	No data available.
DECOMPOSITION TEMPERATURE (°F)	No data available.

Data on fire and explosion hazards

▼ FLASH POINT (°F)	-
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FLASH POINT (°C)	-70
FLAMMABILITY (°F)	The material is ignitable.
AUTO-IGNITION TEMPERATURE (°F)	No data available.
EXPLOSION LIMITS (% V/V)	No data available.

Solubility

SOLUBILITY IN WATER	No data available.
N-OCTANOL/WATER COEFFICIENT (LOGKOW)	No data available.
SOLUBILITY IN FAT (G/L)	No data available.

9.2. Other information

OTHER PHYSICAL AND CHEMICAL PARAMETERS	No data available.
OXIDIZING PROPERTIES	No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions, including those associated with foreseeable emergencies

None known.

10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.
Extremes of temperature
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Moisture

10.5. Incompatible materials

Reducing agents
Strong oxidizing agents

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed.
Harmful in contact with skin.
Harmful if inhaled.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer.

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2024)

Reproductive toxicity

May damage fertility or the unborn child.

STOT-single exposure

May cause drowsiness or dizziness.

Causes damage to organs.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Other information

C.I. Basic Violet 3 with ≥ 0.1 % of Michler's ketone (EC no. 202-027-5) has been classified by IARC as a group 2B carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Based on available data, the classification criteria are not met.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

Butanone is listed with EPA Hazardous Waste Number: U159

methanol is listed with EPA Hazardous Waste Number: U154

Ethyl acetate is listed with EPA Hazardous Waste Number: U112

Specific labelling

Contaminated packing

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN PROPER SHIPPING NAME	14.3 HAZARD CLASS(ES)	14.4 PG*	14.5 ENV**	OTHER INFORMAT ION:
DOT	UN1210	PRINTING INK	Transport hazard class: 3 Label: 3 Classification code: F1	II	No	Limited quantities: 5 L Tunnel

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2024)

	14.1 UN / ID	14.2 UN PROPER SHIPPING NAME	14.3 HAZARD CLASS(ES)	14.4 PG*	14.5 ENV**	OTHER INFORMAT ION:
						restriction code: (D/E) See below for additional information .
IMDG	UN1210	PRINTING INK	Transport hazard class: 3 Label: 3 Classification code: F1 	II	No	Limited quantities: 5 L EmS: F-E S- D See below for additional information .
IATA	UN1210	PRINTING INK	Transport hazard class: 3 Label: 3 Classification code: F1 	II	No	See below for additional information .

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

DOT / See § 172.101 Hazardous Materials Table for any information on special provisions, requirements, or warnings in connection with transport. See § 172.602, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

15.2. U.S. Federal regulations

TSCA (THE NON-
CONFIDENTIAL PORTION)

Butanone is listed

methanol is listed

N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone is listed

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane is listed

C.I. Basic Violet 3 with ≥ 0.1 % of Michler's ketone (EC no. 202-027-5) is listed

Ethyl acetate is listed

Tetrabutylphosphonium bromide is listed

CLEAN AIR ACT	methanol is regulated as a hazardous air pollutant (HAPS)
EPCRA SECTION 302	None of the components are listed
EPCRA SECTION 304	None of the components are listed
EPCRA SECTION 313	methanol is listed N-methyl-2-pyrrolidone;1-methyl-2-pyrrolidone is listed
CERCLA	Butanone is regulated with a Reportable Quantity (RQ) of: 5000 pounds methanol is regulated with a Reportable Quantity (RQ) of: 5000 pounds Ethyl acetate is regulated with a Reportable Quantity (RQ) of: 5000 pounds
HAZARDOUS CHEMICAL INVENTORY REPORTING	This product is subject to Tier II reporting.

State regulations

CALIFORNIA / PROP. 65	methanol is known to cause: Developmental Toxicity NSRL/MADL (µg/day): 47,000 (inhalation) 23,000 (oral) — N-methyl-2-pyrrolidone;1-methyl-2-pyrrolidone is known to cause: Developmental Toxicity NSRL/MADL (µg/day): 3200 (inhalation) 17000 (dermal) — C.I. Basic Violet 3 with ≥ 0.1 % of Michler's ketone (EC no. 202-027-5) is known to cause: Cancer —
MASSACHUSETTS / RIGHT TO KNOW ACT	Butanone is listed methanol is listed N-methyl-2-pyrrolidone;1-methyl-2-pyrrolidone is listed Ethyl acetate is listed
NEW JERSEY / RIGHT TO KNOW ACT	Butanone / Substance number: 1258 Butanone is on the Special Health Hazard Substance List — methanol / Substance number: 1222 methanol is on the Special Health Hazard Substance List — N-methyl-2-pyrrolidone;1-methyl-2-pyrrolidone / Substance number: 3716 N-methyl-2-pyrrolidone;1-methyl-2-pyrrolidone is on the Special Health Hazard Substance List — Ethyl acetate / Substance number: 0841 Ethyl acetate is on the Special Health Hazard Substance List —
NEW YORK / RIGHT TO KNOW ACT	Butanone is listed Butanone is regulated with a Reportable Quantity (RQ) of: 5000 pounds Butanone is regulated with a Treshold Reporting Quantity (TRQ) of: 10 pounds — methanol is listed methanol is regulated with a Reportable Quantity (RQ) of: 5000 pounds methanol is regulated with a Treshold Reporting Quantity (TRQ) of: 10 pounds — Ethyl acetate is listed Ethyl acetate is regulated with a Reportable Quantity (RQ) of: 5000 pounds Ethyl acetate is regulated with a Treshold Reporting Quantity (TRQ) of: 0 pounds —
PENNSYLVANIA / RIGHT TO KNOW ACT	Butanone is listed Butanone is hazardous to the environment (E) — methanol is listed methanol is hazardous to the environment (E) — N-methyl-2-pyrrolidone;1-methyl-2-pyrrolidone is listed —

Ethyl acetate is listed
Ethyl acetate is hazardous to the environment (E)

15.4. Restrictions for application

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

15.5. Demands for specific education

No specific requirements.

15.6. Additional information

Not applicable.

15.7. Chemical safety assessment

No

15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H225, Highly flammable liquid and vapour.
H301, Toxic if swallowed.
H302, Harmful if swallowed.
H311, Toxic in contact with skin.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H331, Toxic if inhaled.
H335, May cause respiratory irritation.
H336, May cause drowsiness or dizziness.
H351, Suspected of causing cancer.
H360, May damage fertility or the unborn child.
H361fd, Suspected of damaging fertility. Suspected of damaging fertility or the unborn child.
H370, Causes damage to organs.
H371, May cause damage to organs.
Repeated exposure may cause skin dryness or cracking, Repeated exposure may cause skin dryness or cracking.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CERCLA = Comprehensive Environmental Response Compensation and Liability Act
DOT = Department of Transportation
EINECS = European Inventory of Existing Commercial chemical Substances
EPCRA = Emergency Planning and Community Right-To-Know Act
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HCIS = Hazardous Chemical Information System
HNOC = Hazards Not Otherwise Classified
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health
OECD = Organisation for Economic Co-operation and Development
OSHA = Occupational Safety and Health Administration
PBT = Persistent, Bioaccumulative and Toxic
RCRA = Resource Conservation and Recovery Act
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SARA = Superfund Amendments and Reauthorization Act
SCL = A specific concentration limit.
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TSCA = The Toxic Substances Control Act
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

The classification of the mixture in regard to physical hazards has been based on experimental data.

The safety data sheet is validated by

Else Super

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en