



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

ZINC Bright

Material number 110010

Revision date: Jul/28/2016
Version: 2
Language: en-US
Date of print: Aug/11/2016

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1. Product and company identification

Product identifier

Trade name: ZINC Bright

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

General use: Technical aerosol

Details of the supplier of the safety data sheet

Company name: WEICON Inc.
Street/POB-No.: 20 Steckle Place, Unit 20
Postal Code, city: Kitchener, Ontario N2E 2C3, CA
WWW: www.weicon.ca
E-mail: info@weicon.ca
Telephone: +1-519-896-5252
Telefax: +1-519-896-5254
Dept. responsible for information:
Product-Safety-Department
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

EMERGENCY CONTACT – USA (24h): Tel: ++1 202 464 2554

Transport:

TRANSPORT EMERGENCY CONTACT - USA (24h): Tel: ++1 202 464 2554

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid
Form: Aerosol
Color: silver gray
Odor: solvent-like
Classification: Flammable Aerosol - Category 1; Compressed Gas; Eye Irritation - Category 2A;
Specific Target Organ Toxicity (Single Exposure) - Category 3;
Specific Target Organ Toxicity (Repeated Exposure) - Category 2;
Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word:

Danger

Hazard statements:

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.



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Precautionary statements: Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash hands and face thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.
Specific treatment (see on this label).
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

Higher doses may have a narcotic effect.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Potentially explosive mixtures may form if adequate ventilation is not provided.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: A mixture of: Synthetic resin-binder, solvents and pigments



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Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 67-64-1	Acetone	3 - 10 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 7440-66-6	Zinc powder-zinc dust (stabilized)	2.5 - 10 %	Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 123-86-4	n-Butyl acetate	< 10 %	Flammable Liquid - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 141-78-6	Ethyl acetate	3 - 10 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 1330-20-7	Xylene	5 - 10 %	Flammable Liquid - Category 3. Acute Toxicity - dermal - Category 4. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2.
CAS 64742-48-9	Naphtha (petroleum), hydrotreated heavy	1 - 10 %	Flammable Liquid - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1.
CAS 7429-90-5	Aluminium powder (phlegmatized)	< 10 %	Flammable Solid - Category 1. Water-reactive - Category 2.
CAS 100-41-4	Ethylbenzene	< 10 %	Flammable Liquid - Category 2. Acute Toxicity - inhalative - Category 4. Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aspiration Toxicity - Category 1.
CAS 71-36-3	Butan-1-ol	< 3 %	Flammable Liquid - Category 3. Acute Toxicity - oral - Category 4. Skin Irritation - Category 2. Eye Damage - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 68308-64-5	Quaternary ammonium compounds, coco alkylethyl dimethyl, Et sulfates	< 0.25 %	Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1B. Aquatic toxicity - acute - Category 1.
CAS 115-10-6	Dimethyl ether	50 - 75 %	Flammable Gas - Category 1. Compressed Gas.

4. First aid measures

General information:	Take off immediately all contaminated clothing and wash it before reuse.
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical attention.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Seek medical attention.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.



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After swallowing: Immediately get medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Causes serious eye irritation. May cause drowsiness or dizziness.
Inhalation causes narcotic effects/intoxication. Dizziness, fatigue, headache. May cause respiratory irritation.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

> 131 °F

Auto-ignition temperature: No data available

Suitable extinguishing media:

Alcohol resistant foam, dry chemical powder, carbon dioxide, sand.

Extinguishing media which must not be used for safety reasons:

Water

Specific hazards arising from the chemical

Extremely flammable aerosol. Contains gas under pressure; may explode if heated.
May form dangerous gases and vapours in case of fire. Metal oxide smoke, carbon monoxide and carbon dioxide.
Potentially explosive vapor/air mixtures may form.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Do not expose to high temperature. Danger of bursting and explosion. Cool exposed containers with water spray.
Move undamaged containers from immediate hazard area if it can be done safely.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Do not breathe gas/vapor/spray. Avoid contact with the substance. In case of leakage, eliminate all ignition sources. Wear appropriate protective equipment. Keep unprotected people away. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction. Cordon off downwind area at risk and warn inhabitants.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.
In case of release, notify competent authorities. Danger of explosion!

Methods for clean-up:

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
Beware of reignition. Thoroughly clean surrounding area.

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.



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7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe gas/vapor/spray.
Avoid contact with skin and eyes. Wear appropriate protective equipment.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Take off contaminated clothing and wash it before reuse.

Precautions against fire and explosion:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Explosion protection required.

Storage

Requirements for storerooms and containers:
Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Store containers in upright position. Explosion protection required. Explosion protection required.

Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.



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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-64-1	Acetone	USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	500 ppm 250 ppm 590 mg/m ³ ; 250 ppm 2400 mg/m ³ ; 1000 ppm
123-86-4	n-Butyl acetate	USA: NIOSH: STEL USA: NIOSH: TWA USA: OSHA: TWA	950 mg/m ³ ; 200 ppm 710 mg/m ³ ; 150 ppm 710 mg/m ³ ; 150 ppm
141-78-6	Ethyl acetate	USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	1440 mg/m ³ ; 400 ppm 1400 mg/m ³ ; 400 ppm 1400 mg/m ³ ; 400 ppm
1330-20-7	Xylene	USA: OSHA: TWA	435 mg/m ³ ; 100 ppm
7429-90-5	Aluminium powder (phlegmatized)	NIOSH: Ceiling USA: ACGIH: TWA USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	5 mg/m ³ (inhalable fraction) 1 mg/m ³ 10 mg/m ³ (inhalable fraction) 5 mg/m ³ (inhalable fraction) 15 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
100-41-4	Ethylbenzene	USA: ACGIH: TWA USA: NIOSH: STEL USA: NIOSH: TWA USA: OSHA: TWA	87 mg/m ³ ; 20 ppm 545 mg/m ³ ; 125 ppm 435 mg/m ³ ; 100 ppm 435 mg/m ³ ; 100 ppm
71-36-3	Butan-1-ol	NIOSH: Ceiling USA: ACGIH: TWA USA: OSHA: TWA	150 mg/m ³ ; 50 ppm (May be absorbed through the skin.) 61 mg/m ³ ; 20 ppm 300 mg/m ³ ; 100 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
67-64-1	Acetone	USA: ACGIH-BEI, urine	25 mg/L	acetone	end of exposure or end of shift
1330-20-7	Xylene	USA: ACGIH-BEI, urine	1.5 g/g creatinine	Methylhippuric acids	end of exposure or end of shift
100-41-4	Ethylbenzene	USA: ACGIH-BEI, urine	0.15 g/g creatinine	Sum of mandelic acid and phenylglyoxylic acid in urine	end of shift at end of workweek

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Use only explosion-proof equipment.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.



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Skin protection	Flame retardant, antistatic and chemical resistant protective clothing. Protective gloves according to OSHA Standard - 29 CFR: 1910.138 (Solvent resistant protective gloves). Glove material: Butyl caoutchouc (butyl rubber) - Layer thickness: 0.7 mm Breakthrough time: >480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Respiratory protection:	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If higher concentrations occur: Wear self-contained breathing apparatus.
General hygiene considerations:	Use non-sparking tools. Do not pierce or burn, even after use. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Do not breathe gas/vapor/spray. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. When using do not eat, drink or smoke. Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Form: Aerosol Color: silver gray
Odor:	solvent-like
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	-11.2 °F
Flash point/flash point range:	> 131 °F
Evaporation rate:	No data available
Flammability:	Extremely flammable aerosol.
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	0.81 g/cm ³
Water solubility:	at 68 °F: immiscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No decomposition when used properly.
Explosive properties:	Product is not explosive. Potentially explosive vapor/air mixtures may form.

10. Stability and reactivity

Reactivity:	Extremely flammable aerosol. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Contains gas under pressure; may explode if heated.



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- Conditions to avoid: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- Incompatible materials: Do not store together with combustible or self-igniting materials or any highly flammable solids.
- Hazardous decomposition products: No decomposition when used properly.
- Thermal decomposition: No decomposition when used properly.

11. Toxicological information

Toxicological tests

- Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
- Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 5000 mg/kg.
- Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 5000 mg/kg.
- Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 5 mg/L.
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Lack of data.
- Germ cell mutagenicity/Genotoxicity: Lack of data.
- Carcinogenicity: Lack of data.
- Reproductive toxicity: Lack of data.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.
- Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) -
Category 2 = May cause damage to organs through prolonged or repeated exposure.
- Aspiration hazard: Lack of data.
- Other information: Information about Zinc powder-zinc dust (stabilized):
LD50, Rat, oral: > 2000 mg/kg
LC50, Rat, inhalative: 5.41 mg/L/4h
- Information about Xylene:
LD50, dermal: 1100 mg/kg
- For carcinogenic effects:
Information about Ethylbenzene:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: not listed
- Information about Xylene (isomeric mixture):
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed



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Symptoms

Inhalation causes narcotic effects/intoxication. Dizziness, fatigue, headache
After contact with skin:
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):

82.2 % by weight = 669.5 g/L

General information: Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. Spray can must be completely empty for proper waste disposal.

14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN1950
Proper shipping name: UN 1950, AEROSOLS
Hazard class or Division: 2.1
Labels: 2.1
Special provisions: N82
Packaging – Exceptions: 306
Packaging – Non-bulk: None
Packaging – Bulk: None
Quantity limitations – Passenger aircraft / rail: 75 kg
Quantity limitations – Cargo only: 150 kg
Vessel stowage – Location: A
Vessel stowage – Other: 25, 87, 126





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Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
Class or division, Subsidiary risk: Class 2.1, Subrisk-
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 959
Limited quantities: 1000 mL
Excepted quantities: E0
Contaminated packaging - Instructions: P207, LP02
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: yes
Segregation group: none

Air transport (IATA)

UN/ID number: UN 1950
Proper shipping name: UN 1950, AEROSOLS, flammable
Class or division, Subsidiary risk: Class 2.1
Hazard label: Flamm. gas
Excepted Quantity Code: E0
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special provisions: A145 A167 A802
Emergency Response Guide-Code (ERG): 10L



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15. Regulatory information

National regulations - U.S. Federal Regulations

Acetone:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: SOCMI Chemical: yes Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Hazardous Wastes: Code U002 RCRA Groundwater Monitoring: Methods 8240 / PQL 100 NIOSH Recommendations: Occupational Health Guideline: 0004*
Zinc powder-zinc dust (stabilized):	TSCA Inventory: listed TSCA HPVC: not listed Clean Water Act: Priority Pollutant: yes Other Environmental Laws: CERCLA: RQ 1000* lbs. RCRA Groundwater Monitoring: Methods 6010, 7950 / PQL 20, 50 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard
n-Butyl acetate:	TSCA Inventory: listed TSCA HPVC: not listed Clean Water Act: Hazardous Substances: RQ 5000 lbs. Other Environmental Laws: CERCLA: RQ 5000 lbs. NIOSH Recommendations: Occupational Health Guideline: 0072
Ethyl acetate:	TSCA Inventory: listed; EPA flags T TSCA HPVC: not listed Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Hazardous Wastes: Code U112 NIOSH Recommendations: Occupational Health Guideline: 0260
Xylene:	TSCA Inventory: listed TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed Clean Air Act: Hazardous Air Pollutants: Code XOY SOCMI Chemical: yes Clean Water Act: Hazardous Substances: RQ 100 lbs. Other Environmental Laws: CERCLA: RQ 100 lbs. RCRA Hazardous Wastes: Code U239 RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 5, 5 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard



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Aluminium powder (phlegmatized):	TSCA Inventory: listed TSCA HPVC: not listed Other Environmental Laws: SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0022
Ethylbenzene:	TSCA Inventory: listed; EPA flags T TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 2B OSHA Carcinogen: not listed NTP Rating: not listed Clean Air Act: Hazardous Air Pollutants: Code XOY SOCMI Chemical: yes Clean Water Act: Hazardous Substances: RQ 1000 lbs. Priority Pollutant: yes Other Environmental Laws: CERCLA: RQ 1000 lbs. RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 2, 5 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0264*
Butan-1-ol:	TSCA Inventory: listed TSCA HPVC: not listed Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Hazardous Wastes: Code U031 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0076
Dimethyl ether:	TSCA Inventory: listed TSCA HPVC: not listed TSCA listed Clean Air Act: Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f SOCMI Chemical: yes

National regulations - U.S. State Regulations

California Proposition 65: Not listed.

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling: Contains 3 - 10 % Acetone, 2.5 - 10 % Zinc powder-zinc dust (stabilized), < 10 % n-Butyl acetate, 3 - 10 % Ethyl acetate, 5 - 10 % Xylene, 1 - 10 % Naphtha (petroleum), hydrotreated heavy, < 10 % Aluminium powder (phlegmatized), < 10 % Ethylbenzene, < 3 % Butan-1-ol, < 0.25 % Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates, 50 - 75 % Dimethyl ether. Safety data sheet available on request.



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Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 4 (Severe)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects

Flammability: 4 (Severe)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		4
PHYSICAL HAZARD		0
		X

Reason of change:

Changes in section 2: classification, labeling

Changes in section 3: Composition / Information on ingredients

Changes in section 1, 4, 5, 6, 7, 8, 10, 11, 15: General revision

Date of first version:

Oct/8/2015

Department issuing data sheet

Contact person:

see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.