

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/09/2020

Reviewed on 04/09/2020

1 Identification

- **Product identifier**

- **Trade name:** Epoxy Rebar Spray J62

- **Article number:** 69660

- **Application of the substance / the mixture**

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

Dayton® Superior
4226 Kansas Avenue
Kansas City, KS 66106

Tel.: (866) 329-8724

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call international number, +1 703 741-5970. Collect calls are accepted.

- **Information department:** Environmental, Health, and Safety department.

2 Hazard(s) identification

- **Classification of the substance or mixture**

Flam. Aerosol 1 H222 Extremely flammable aerosol.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.

- **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:**

acetone

ethylbenzene

isopropanol

- **Hazard statements**

Extremely flammable aerosol.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

May cause damage to the hearing organs through prolonged or repeated exposure.

- **Precautionary statements**

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

Pressurized container: Do not pierce or burn, even after use.

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

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Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

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

HEALTH	2	Health = *2
FIRE	4	Fire = 4
PHYSICAL HAZARD	1	Reactivity = 1

· **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:**

67-64-1	acetone	≥20-<35%
74-98-6	propane	<16.0%
106-97-8	butane (containing ≥ 0,1 % butadiene (203-450-8))	<9.5%
1330-20-7	xylene	≤9.0%
67-63-0	isopropanol	<4.5%
111-76-2	2-butoxyethanol	<3.75%
13463-67-7	titanium dioxide	≥0.1-≤3.25%
100-41-4	ethylbenzene	≥0.1-<2.1%
64742-89-8	Solvent naphtha (petroleum), light aliph.	<1.8%
64742-47-8	Distillates (petroleum), hydrotreated light	<1.2%
108-65-6	2-methoxy-1-methylethyl acetate	≤1.0%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**· **General information:**

Immediately remove any clothing soiled by the product.

In the event of persistent symptoms receive medical treatment.

· **After inhalation:**

Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

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- **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:** Seek medical treatment.
- **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.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, sand, extinguishing powder. Do not use water.
Foam
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **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**
Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
- **Information about protection against explosions and fires:**
Do not spray on a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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Keep respiratory protective device available.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:** cool and dry

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep receptacle tightly sealed.

Do not gas tight seal receptacle.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· **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:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm

REL Long-term value: 590 mg/m³, 250 ppm

TLV Short-term value: 1187 mg/m³, 500 ppm
Long-term value: 594 mg/m³, 250 ppm
BEI

74-98-6 propane

PEL Long-term value: 1800 mg/m³, 1000 ppm

REL Long-term value: 1800 mg/m³, 1000 ppm

TLV refer to Appendix F in TLVs & BEIs book; D, EX

106-97-8 butane (containing ≥ 0,1 % butadiene (203-450-8))

REL Long-term value: 1900 mg/m³, 800 ppm

TLV Short-term value: 2370 mg/m³, 1000 ppm
(EX)

1330-20-7 xylene

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm

TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

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67-63-0 isopropanol

PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI

111-76-2 2-butoxyethanol

PEL	Long-term value: 240 mg/m ³ , 50 ppm Skin
REL	Long-term value: 24 mg/m ³ , 5 ppm Skin
TLV	Long-term value: 97 mg/m ³ , 20 ppm BEI

100-41-4 ethylbenzene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m ³ , 20 ppm BEI

108-65-6 2-methoxy-1-methylethyl acetate

WEEL	Long-term value: 50 ppm
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Ingredients with biological limit values:**67-64-1 acetone**

BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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1330-20-7 xylene

BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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67-63-0 isopropanol

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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111-76-2 2-butoxyethanol

BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis
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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)

- **Additional information:** The lists that were valid during the creation were used as basis.
- **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.
 - Store protective clothing separately.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes.
 - 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.
- **Protection of hands:**



Protective gloves

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **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.
- **Penetration time of glove material**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Aerosol
Color:	According to product specification
- **Odor:** Solvent-like
- **Odor threshold:** Not determined.

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· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-44 °C (-47.2 °F)
· Flash point:	-19 °C (-2.2 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	365 °C (689 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	1.7 Vol %
Upper:	13 Vol %
· Vapor pressure at 20 °C (68 °F):	8,300 hPa (6,225.5 mm Hg)
· Density at 20 °C (68 °F):	0.8 g/cm ³ (6.676 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	79.9 %
Solids content:	19.4 %
· Other information	No further relevant information available.
· Volatile Organic Compounds:	Contains less than 10 g/L

10 Stability and reactivity

- **Reactivity** No decomposition if stored and applied as directed.
- **Chemical stability** No decomposition if stored and applied as directed
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Keep away from heat and sources of ignition.
- **Incompatible materials:** No further relevant information available.

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· **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:****106-97-8 butane (containing $\geq 0,1$ % butadiene (203-450-8))**

Inhalative LC50/4 h 658 mg/l (rat)

1330-20-7 xylene

Oral LD50 4,300 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rabbit)

· **Primary irritant effect:**· **on the skin:** May cause skin irritation.· **on the eye:**

Strong irritant with the danger of severe eye injury.

Irritating effect.

· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic.

The product can cause inheritable damage.

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

1330-20-7	xylene	3
67-63-0	isopropanol	3
111-76-2	2-butoxyethanol	3
13463-67-7	titanium dioxide	2B
100-41-4	ethylbenzene	2B
75-21-8	ethylene oxide	1

· **NTP (National Toxicology Program)**

75-21-8	ethylene oxide	K
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· **OSHA-Ca (Occupational Safety & Health Administration)**

75-21-8	ethylene oxide	
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12 Ecological information

· **Toxicity**· **Aquatic toxicity:** No further relevant information available.· **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.

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· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Water hazard class 1 (Self-assessment): slightly hazardous for water

· **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 as normal garbage. Do not allow product to reach sewage system.

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA** UN1950

· **UN proper shipping name**

· **DOT** Aerosols

· **ADR** 1950 AEROSOLS

· **IMDG, IATA** AEROSOLS

· **Transport hazard class(es)**

· **DOT**



· **Class** 2.1

· **Label** 2.1

· **ADR, IMDG, IATA**



· **Class** 2.1

· **Label** 2.1

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· Packing group · DOT, ADR, IMDG, IATA	I
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Code	33 F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· U.S. Domestic Ground Shipments: · U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:	Same as listed for Standard Shipments above. Same as listed for Standard Shipments above.
· Emergency Response Guide (ERG) Number:	Not determine
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, I

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

75-21-8 ethylene oxide

· Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

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1330-20-7	xylene	≤9.0%
67-63-0	isopropanol	<4.5%
111-76-2	2-butoxyethanol	<3.75%
100-41-4	ethylbenzene	≥0.1-<2.1%
107-21-1	ethanediol	<0.1%
75-21-8	ethylene oxide	<0.1%

· TSCA (Toxic Substances Control Act):

67-64-1	acetone	ACTIVE
74-98-6	propane	ACTIVE
106-97-8	butane (containing ≥ 0,1 % butadiene (203-450-8))	ACTIVE
1330-20-7	xylene	ACTIVE
67-63-0	isopropanol	ACTIVE
111-76-2	2-butoxyethanol	ACTIVE
13463-67-7	titanium dioxide	ACTIVE
100-41-4	ethylbenzene	ACTIVE
64742-47-8	Distillates (petroleum), hydrotreated light	ACTIVE
108-65-6	2-methoxy-1-methylethyl acetate	ACTIVE
107-21-1	ethanediol	ACTIVE
75-21-8	ethylene oxide	ACTIVE

· Hazardous Air Pollutants

1330-20-7	xylene
100-41-4	ethylbenzene
107-21-1	ethanediol
75-21-8	ethylene oxide

· Proposition 65

· Chemicals known to the State of California (Prop. 65) to cause cancer:

13463-67-7	titanium dioxide
100-41-4	ethylbenzene
75-21-8	ethylene oxide

· Chemicals known to cause reproductive toxicity for females:

75-21-8	ethylene oxide
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· Chemicals known to cause reproductive toxicity for males:

75-21-8	ethylene oxide
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· Chemicals known to cause developmental toxicity:

107-21-1	ethanediol
75-21-8	ethylene oxide

· Cancerogenity categories

· EPA (Environmental Protection Agency)

67-64-1	acetone	I
1330-20-7	xylene	I

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111-76-2	2-butoxyethanol	NL
100-41-4	ethylbenzene	D
75-21-8	ethylene oxide	CaH

· **TLV (Threshold Limit Value established by ACGIH)**

67-64-1	acetone	A4
1330-20-7	xylene	A4
67-63-0	isopropanol	A4
111-76-2	2-butoxyethanol	A3
13463-67-7	titanium dioxide	A4
100-41-4	ethylbenzene	A3
107-21-1	ethanediol	A4
75-21-8	ethylene oxide	A2

· **MAK (German Maximum Workplace Concentration)**

111-76-2	2-butoxyethanol	4
13463-67-7	titanium dioxide	3A
100-41-4	ethylbenzene	3A
75-21-8	ethylene oxide	2

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

13463-67-7	titanium dioxide
75-21-8	ethylene oxide

· **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:**

acetone

ethylbenzene

isopropanol

· **Hazard statements**

Extremely flammable aerosol.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

May cause damage to the hearing organs through prolonged or repeated exposure.

· **Precautionary statements**

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

Pressurized container: Do not pierce or burn, even after use.

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

Store locked up.

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Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Water hazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.

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

16 Other information

The provided 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.

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.

· **Department issuing SDS:** Environmental, Health & Safety Department

· **Contact:** Environmental, Health & Safety Manager

· **Date of preparation / last revision** 04/09/2020 / 48

· **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Aerosol 1: Aerosols – Category 1

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2