

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Printing date 03/03/2015 Reviewed on 03/03/2015

1 Identification

- · Product identifier
- · Trade name: Epoxy Adhesive Part A
- Product number:

CM-2020 Part A, CM-2040 Part A, CM-2070 Part A, CF-2020 Part A, CF 2040 Part A & CF-2070 Part A

- · Relevant identified uses of the substance or mixture and uses advised against
- Part A of Epoxy Resin Compound
- · Product description Epoxy Resin
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Champion Fiberglass, Inc.

6400 Spring Stuebner Rd.

Spring, TX 77389 Phone: 281.655.8900

Fax: 281.257.2523

www.championfiberglass.com

Emergency telephone number: 281.655.8900

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

Repr. 1B H360 May damage fertility or the unborn child.

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of

exposure: Inhalative.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements

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

· Hazard pictograms





GHS07 GHS08

- · Signal word Danger
- Hazard-determining components of labeling:
 Epoxy resin

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Trade name: Epoxy Adhesive Part A

Proprietary

Furfuryl Alcohol

Proprietary

Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious eve irritation.

May cause an allergic skin reaction.

May cause cancer.

May damage fertility or the unborn child.

May cause respiratory irritation.

Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wear eye protection / face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

If swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

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

If eve irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store locked up.

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

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

· Unknown acute toxicity:

25 percent of the mixture consists of ingredient(s) of unknown toxicity.

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



Health = 1Fire = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *1

Fire = 1

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Trade name: Epoxy Adhesive Part A

· Other hazards None known

Composition/information on ingredients

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

· Dangerous Compon	ents:	
CAS: 25068-38-6	Epoxy resin Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	60-90%
RTECS: VV 7330000	· · · · · · · · · · · · · · · · · · ·	15-35%
CAS: 98-00-0 RTECS: LU 9100000	Furfuryl Alcohol Acute Tox. 3, H331; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2A, H319; STOT SE 3, H335; H227	2-12%
	Proprietary ❖ Carc. 1B, H350	≤ 2.5%
RTECS: FF 5150100	Proprietary Carc. 2, H351; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤ 2.5%
RTECS: UY 5790000	Proprietary Repr. 1B, H360; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≤ 2.5%

4 First-aid measures

- · Description of first aid measures
- General information:

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

- · After inhalation: In case of unconsciousness, place patient securely on side position for transportation.
- After skin contact:

May cause burn in case of contact with product at high temperature. Remove contaminated clothing and footwear and dispose of safely. Wash affected area with soap and water. Seek medical attention if skin irritation, swelling or redness develops or persisits. If applicable, when using high pressure equipment, injection of product can ocurr. If high pressure injuries occur, immediately seek professional medical attention. For minor thermal burns, hold the burned area under cold running water for at least five minutes or until the pain subsides. However, body hypothermia must be avoided. Do not put ice on the burn. Remove non-sticking garments carefully. DO NOT attempt to remove portions of clothing glued to burnt skin but cut around them. Seek immediate medical attention in all cases of serious burns.

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

May cause burn in case of contact with product at high temperature. If hot product is splashed into the eye, it should be cooled immediately to dissipate heat, under cold running water. Immediately obtain specialist medical assessment and treatment for the casualty.

- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

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Trade name: Epoxy Adhesive Part A

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, dry chemical, water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture

If product is incinerated it may release toxic fumes including: Oxides of Carbon, Nitrogen (NOx) and Silicon, Hydrogen Chloride gas.

- · Advice for firefighters
- Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Do not breathe vapor.

Proper protective equipment should be used.

Keep away from ignition sources

Mount respiratory protective device.

Ensure adequate ventilation

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

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.

Open and handle receptacle with care.

Prevent formation of aerosols.

Avoid breathing fume/gas/mist/vapors/spray.

Avoid contact with skin, eyes and clothing

Keep away from sources of ignition.

Use personal protection equipment as outlined in section 8.

Keep receptacles tightly sealed.

· Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

· Conditions for safe storage, including any incompatibilities

Store away from acids, bases, strong oxidizing agents, strong reducing agents, acid Chlorides, Ammonia, Amines, Sodium Oxides, reactive metals (Zinc & Aluminum) and their alloys (Brass, etc.), Halides, Air, Hydrogen Fluoride, Oxygen difluoride and Chlorine trifluoride.

- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.

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- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · 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 section 7.

· Control parameters

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

· Con	ponents with occupational exposure limits:		
Proj	prietary		
PEL	see Quartz listing		
REL	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A		
TLV	Long-term value: 0.025* mg/m³ *as respirable fraction		
98-0	0-0 Furfuryl Alcohol		
PEL	Long-term value: 200 mg/m³, 50 ppm		
REL	Short-term value: 60 mg/m³, 15 ppm Long-term value: 40 mg/m³, 10 ppm Skin		
TLV	Short-term value: 60 mg/m³, 15 ppm Long-term value: 40 mg/m³, 10 ppm Skin		
Proj	orietary		
PEL	Long-term value: 3.5 mg/m³		
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C		
TLV	Long-term value: 3* mg/m³ *inhalable fraction		
Proj	prietary		
WE	Long-term value: 10 ppm Skin		
· Ingr	edients with biological limit values:		
Proj	prietary		
BEI	BEI 100 mg/L		
urine			
	end of shift 5. Hydroxy N. mothyl 2. pyrrolidono		
	5-Hydroxy-N-methyl-2-pyrrolidone		

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

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Breathing equipment:

Respiratory protection is not required unless handling of the material produces nuisance airborne concentrations.

· Protection of hands:



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and 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.

· Penetration time of glove material

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

· Eye protection: Tightly sealed goggles

9 Physical and chemical properties

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

Form: Paste
Color: Black
Odor: Odorless

Odor threshold: Not determined.pH-value: Not determined.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Flash point:
Flammability (solid, gaseous):
Ignition temperature:
Decomposition temperature:
Not determined.
171 °C (340 °F)
248 °C (478 °F)
Not applicable.
390 °C (734 °F)
Not determined.

· **Auto igniting:** Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.

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Trade name: Epoxy Adhesive Part A

Upper: Not determined.*Vapor pressure:* Not determined.

• **Density** @ **20** °**C** (**68** °**F**): 1.37 g/cm³ (11.433 lbs/gal)

Relative density
Vapour density
Evaporation rate
Not determined.
Not determined.
Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Acids, bases, strong oxidizing agents, strong reducing agents, acid Chlorides, Ammonia, Amines, Sodium Oxides, reactive metals (Zinc & Aluminum) and their alloys (Brass, etc.), Halides, Air, Hydrogen Fluoride, Oxygen difluoride and Chlorine trifluoride.

· Hazardous decomposition products:

Oxides of Carbon, Nitrogen (NOx) and Silicon, Hydrogen Chloride gas.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 v	alues tha	nt are relevant for classification:
25068-38-0	6 Epoxy r	esin
Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
98-00-0 Fu	ırfuryl Alc	cohol
Oral	LD50	160 mg/kg (mouse)
Dermal	LD50	400 mg/kg (rabbit)
Proprietar	у	
Oral	LD50	10000 mg/kg (rat)
Proprietar	у	
Oral	LD50	470 mg/kg (rat)
Dermal	LD50	220 mg/kg (rab)
Inhalative	LC50/4 h	2174.91 mg/l (rat)
Proprietar	у	
Oral	LD50	10000 mg/kg (rat)

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Trade name: Epoxy Adhesive Part A

Proprieta	ary	
Oral	LD50	3914 mg/kg (rat)
Dermal	LD50	8000 mg/kg (rabbit)

- · Primary irritant effect:
- on the skin:

Irritant to skin and mucous membranes.

May cause an allergic skin reaction.

on the eye:

Irritating effect.

Causes serious eye irritation.

- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

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

Harmful

Irritant

Carcinogenic.

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

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

Proprietary	1
Proprietary	3
Proprietary	3
Proprietary	2B
· NTP (National Toxicology Program)	
Proprietary	K
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients are listed.	
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*12 Ecological information

· Toxicity

· Aquatic toxicity:	
25068-38-6 Epoxy resin	
EC50 3.6 mg/l (daphnia)	
Proprietary	
EC50 1815 mg/l (Water flea)	

- 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.
- Additional ecological information:
- · General notes:

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

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Trade name: Epoxy Adhesive Part A

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

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

3 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:

Dispose of as unused product.

Disposal must be made according to official regulations.

4 Transport information

· UN-Number

· DOT, ADR, IMDG, IATA

UN2810

UN proper shipping name

· DOT

Toxic, liquids, organic, n.o.s. (Furfuryl alcohol)

UN2810 Toxic, liquids, organic, n.o.s. (Furfuryl alcohol) · ADR TOXIC LIQUID, ORGANIC, N.O.S. (FURFURYL ALCOHOL) · IMDG, IATA

· Transport hazard class(es)

· DOT



6.1 Toxic substances · Class

· Label

· ADR



· Class 6.1 (T1) Toxic substances

· Label 6.1

· IMDG, IATA



· Class 6.1 Toxic substances

· Label 6.1

Packing group

· DOT, ADR, IMDG, IATA Ш

Environmental hazards: Not applicable.

· Special precautions for user Warning: Toxic substances

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Trade name: Epoxy Adhesive Part A

Danger code (Kemler):EMS Number:F-A,S-A

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

DOT

• Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L

· ADR

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· IMDG

Limited quantities (LQ)Excepted quantities (EQ)5 LCode: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

**UN "Model Regulation": UN2810, Toxic, liquids, organic, n.o.s. (Furfuryl alcohol), 6.1, III

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 are listed.

· Section 313 (Specific toxic chemical listings):

Proprietary Proprietary

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65
- · Chemicals known to cause cancer:

Proprietary

Proprietary

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

Proprietary

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

Proprietary NL

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Trade name: Epoxy Adhesive Part A

· TLV (Threshold Limit Value established by ACGIH)	
Proprietary	A2
Proprietary	A3
Proprietary	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
Proprietary	
Proprietary	

· GHS label elements

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

· Hazard pictograms





GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

Epoxy resin

Proprietary

Furfuryl Alcohol

Proprietary

Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause cancer.

May damage fertility or the unborn child.

May cause respiratory irritation.

Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

· Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wear eye protection / face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

If swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

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

If eye irritation persists: Get medical advice/attention.

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Trade name: Epoxy Adhesive Part A

Get medical advice/attention if you feel unwell.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store locked up.

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

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

National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

Epoxy resin	60-90%
♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
Proprietary	15-35%
♦ Carc. 1A, H350; STOT RE 1, H372; ♦ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320	
Furfuryl Alcohol	2-12%
Acute Tox. 3, H331; & Carc. 2, H351; STOT RE 2, H373;	,
Proprietary	2-12%
Proprietary	≤ 2.5%
Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; H227	
Proprietary	≤ 2.5%
♦ Carc. 1B, H350	
	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Proprietary ♠ Carc. 1A, H350; STOT RE 1, H372; ♠ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320 Furfuryl Alcohol ♠ Acute Tox. 3, H331; ♠ Carc. 2, H351; STOT RE 2, H373; ♠ Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2A, H319; STOT SE 3, H335 H227 Proprietary Proprietary ♠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; H227 Proprietary Proprietary

- · Information about limitation of use:
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- Date of preparation / last revision 03/03/2015 / -
- · Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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

: Flammable liquids, Hazard Category 4

Acute Tox. 3: Acute toxicity, Hazard Category 3

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Acute Tox. 4: Acute toxicity, Hazard Category 4

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

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

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

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

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

Carc. 1A: Carcinogenicity, Hazard Category 1A Carc. 1B: Carcinogenicity, Hazard Category 1B

Carc. 2: Carcinogenicity, Hazard Category 2

Repr. 1B: Reproductive toxicity, Hazard Category 1B STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

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

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

* Data compared to the previous version altered.

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