



**Safety Data Sheet**

according to WHMIS

**TIP TOP REMAFIX H COMP. A**

Revision date: 04.04.2023

Product code: 00359-1013

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**3. Composition/information on ingredients****Mixtures****Chemical characterization**

Mixture containing following substances with additives :

**Hazardous components**

CAS No	Chemical name	Quantity
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2, 3-epoxypropane and phenol	< 55 %
1675-54-3	bis-[4-(2,3-epoxypropoxy)phenyl]propane	< 20 %

**4. First-aid measures****Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.  
In the event of persistent symptoms receive medical treatment.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.  
In the event of symptoms refer for medical treatment.

**After contact with skin**

Wash off immediately with soap and plenty of water.  
Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment by eye specialist.

**After ingestion**

Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
Summon a doctor immediately.  
Induce vomiting only upon the advice of a physician.

**Most important symptoms and effects, whether acute or delayed**

Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.

**Indication of immediate medical attention and special treatment needed**

Treat symptoms.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.**Unsuitable extinguishing media**

Full water jet.

**Specific hazards arising from the hazardous product**

Fire may produce:  
Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

**Special protective equipment and precautions for fire-fighters**

Use breathing apparatus with independent air supply.



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Protective suit.

#### Additional information

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### General advice

Ensure adequate ventilation.

Keep away noninvolved persons.

#### For non-emergency personnel

Do not breathe vapours.

Avoid contact with skin, eyes and clothing.

#### For emergency responders

In case of vapour formation use respirator.

Use personal protective clothing.

### Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

#### For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

Clean contaminated surface thoroughly.

### Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal look up chapter 13.

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.

#### Advice on protection against fire and explosion

No special protective measures against fire required.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Protect against direct sun radiation.

#### Hints on joint storage

Incompatible with:

Oxidizing agents, Amines, Acids and bases.

#### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

## 8. Exposure controls/Personal protection

### Control parameters

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**Additional advice on limit values**

This product does not contain any substances for which a Workplace Exposure Limit has been set in concentrations above the limits.

**Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

**Eye/face protection**

Tightly fitting goggles.

Eye wash bottle with pure water.

**Hand protection**

Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the GISBAU protective gloves database under:

<http://www.wingisonline.de/handschuhe/frmMain.aspx>

**Skin protection**

Long sleeved clothing.

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Pasty	
Colour:	Black	
Odour:	Slight of epoxy	
pH-Value:		n. d.

**Changes in the physical state**

Melting point/freezing point:	n. d.
Boiling point or initial boiling point and boiling range:	n. d.
Sublimation point:	n.a.
Softening point:	n. d.
Flash point:	> 252 °C

**Flammability**

Solid/liquid:	n.a.
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**Explosive properties**

The product is not explosive.

Lower explosive limits:	n. d.
Upper explosive limits:	n. d.

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Auto-ignition temperature:	> 300 °C
<b>Self-ignition temperature</b>	
Solid:	n.a.
Gas:	n.a.
Decomposition temperature:	n. d.
<b>Oxidizing properties</b>	
Not oxidising.	
Vapour pressure:	n. d.
Density (at 20 °C):	1,26 g/cm <sup>3</sup>
Bulk density:	n.a.
Water solubility: (at 20 °C)	Immiscible
<b>Solubility in other solvents</b>	
n. d.	
Partition coefficient n-octanol/water:	n. d.
Viscosity / dynamic:	n. d.
Viscosity / kinematic:	n. d.
Flow time:	n. d.
Relative vapour density:	n. d.
Evaporation rate:	n. d.
Solvent separation test:	0 %
Solvent content:	0 %

**Other information**

No data available

**10. Stability and reactivity****Reactivity**

No decomposition if stored and applied as directed.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Reactions with acids, alkalies and oxidising agents.

Reactions with amines.

**Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Protect against direct sun radiation.

Polymerisation occurs when exposed to heat.

**Incompatible materials**

Strong oxidizing agents, Amines, Acids and bases

**Hazardous decomposition products**

No hazardous decomposition products known.

Fire may produce:

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

**11. Toxicological information****Information on toxicological effects**

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**Acute toxicity**

Based on available data, the classification criteria are not met.  
No toxicological data available.

**Irritation and corrosivity**

Causes skin irritation.  
Causes serious eye irritation.

**Sensitizing effects**

May cause an allergic skin reaction. (Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; bis-[4-(2,3-epoxipropoxy)phenyl]propane)

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

**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.

**Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

**Information on other hazards****Endocrine disrupting properties**

No data available

**12. Ecological information****Ecotoxicity**

Ecological data are not available.  
Toxic to aquatic life with long lasting effects.

**Persistence and degradability**

Not readily biodegradable.

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Other adverse effects**

Hazardous water pollutant.

**Further information**

Do not flush into surface water or sanitary sewer system.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Can be incinerated, when in compliance with local regulations.  
Where possible recycling is preferred to disposal.

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.  
Contaminated packagings are to be treated like the product itself.

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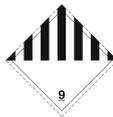
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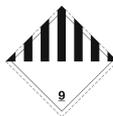
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

**14. Transport information****Canadian TDG**

**UN number or ID number:** UN 3082  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Epoxy resin)  
**Hazard classes:** 9  
**Packing group:** III  
Hazard label: 9  
Limited quantity: 5 L

**Marine transport (IMDG)**

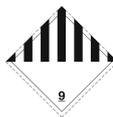
**UN number:** UN 3082  
**United Nations proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Epoxy resin)  
**Transport hazard class(es):** 9  
**Packing group:** III  
Hazard label: 9



Marine pollutant: Yes  
Special Provisions: 274 335 969  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1  
EmS: F-A, S-F

**Air transport (ICAO-TI/IATA-DGR)**

**UN number:** UN 3082  
**United Nations proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Epoxy resin)  
**Transport hazard class(es):** 9  
**Packing group:** III  
Hazard label: 9



Special Provisions: A97 A158 A197 A215  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y964  
Excepted quantity: E1

IATA-packing instructions - Passenger: 964  
IATA-max. quantity - Passenger: 450 L  
IATA-packing instructions - Cargo: 964

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IATA-max. quantity - Cargo: 450 L

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



## 15. Regulatory information

### Canadian regulations

#### **DSL/NDSL inventory status**

All components are listed on the DSL Inventory.

#### **WHMIS classification**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

## 16. Other information

### **Changes**

This data sheet contains changes from the previous version in section(s): 1,2,6,8,11,14,15.

### **Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
IMDG = International Maritime Code for Dangerous Goods  
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization  
MARPOL = International Convention for the Prevention of Pollution from Ships  
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals  
CAS = Chemical Abstract Service  
EN = European norm  
ISO = International Organization for Standardization  
DIN = Deutsche Industrie Norm  
PBT = Persistent Bioaccumulative and Toxic  
vPvB = Very Persistent and very Bio-accumulative  
LD = Lethal dose  
LC = Lethal concentration  
EC = Effect concentration  
IC = Median immobilisation concentration or median inhibitory concentration

### **Further Information**

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.



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(n.a. = not applicable; n.d. = not determined)

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*