



TARA PAINTS & CHEMICALS

A/423/14, MAHAGUJARAT INDUSTRIAL ESTATE, SARKHEJ-BAVLA ROAD, B/H. SARVOTTAM HOTEL LANE, VILLAGE-MORAIYA, AHMEDABAD - 382210

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2801 Epoxy FG Clear 2pk [2:1]

Safety Data Sheet

PRODUCT CODE: 2801 - EPOXY FG (PART A & B)

PART – A

1 Identification of substance

Trade name or designation of the mixture : EPOXY FG BASE (PART A)
Date of first issue 29/07/2014
Version number 01
Identified uses Epoxy Resin
Details of the supplier of the safety data sheet
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A/423/14, Mahagujarat Industrial Estate, Sarkhej-Bavla Road, B/h. Sarvottam Hotel Lane, Village-Moraiya, Ahmedabad - 382210
Tel: (F): 02717-320003

2 Composition/Data on components

· Chemical characterization:

CAS No.	Description
25068-38-6	[Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)]
238-878-4	Quartz

3 Hazards identification

· Hazard description:

Xi Irritant

N Dangerous for the environment

· Information pertaining to particular dangers for man and environment:

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitisation by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Contains epoxy constituents. See information supplied by the manufacturer.

· Classification system:

- NFPA ratings (scale 0 - 4)

Health = 1

Fire = 0

Reactivity = 0

- HMIS-ratings (scale 0 - 4)

HEALTH

Health = 1

Fire = 0

Reactivity = 0

- GHS label elements

Warning

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H317 - May cause an allergic skin reaction.

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H411 - Toxic to aquatic life with long lasting effects.



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- Prevention:

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

- Response:

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see on this label).
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage.

- Disposal:

- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

4 First aid measures

· After inhalation:

- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents:

Water spray

Extinguishing powder

· **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

· Person-related safety precautions:

Mount respiratory protective device.

Remove persons from danger area.

· Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Measures for cleaning/collecting:

Large spills: In a clean area, dike and recover for reuse. Keep out of sewers and waterways. Dispose of contaminated material.

Small spills: Use absorbent pad or mix with absorbent material and dispose

7 Handling and storage

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- **Handling:**
- **Information for safe handling:** Store in cool, dry place in tightly closed receptacles.
- **Information about protection against explosions and fires:** Protect from heat.

- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle. Store in a cool location.
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials. Store away from oxidizing agents.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **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. Avoid contact with the eyes and skin.

- **Breathing equipment:** Not required.
- **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. Selection of the glove material on consideration of the penetration times, rates of diffusion and the 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.

· **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:**

Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form: Liquid

Color: Colorless

Odor: Characteristic

· **Change in condition**

Boiling point/Boiling range: >200°C (>392°F)

· **Flash point:** >200°C (>392°F)

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

· **Density at 25°C (77°F):** 1.15 - 1.20 g/cm³

· **Solubility in / Miscibility with**

Water: Insoluble.

· **pH-value:** Neutral

· **Viscosity:**

Dynamic at 25°C (77°F): 10.000 - 12.000 mPas (Brookfield DV II)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Strong Oxidising agents, Strong Alkali, Strong Bases, Amines

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· Dangerous reactions

Reacts with amines with exothermic reaction liberating heat and fumes

· **Dangerous products of decomposition:** Carbon monoxide and carbon dioxide

11 Toxicological information

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

12 Ecological information

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **General notes:**

Water hazard class 2 (Assessment by list): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

13 Disposal considerations

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **DOT regulations:**

· **Hazard class:** -

· **Land transport ADR/RID (cross-border):**

· **ADR/RID class:** 9 Miscellaneous dangerous substances and articles

· **Danger code (Kemler):** 90

· **UN-Number:** 3082

· **Packaging group:** III

· **Label:** 9

· **Description of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700))

· **Maritime transport IMDG:**

· **IMDG Class:** 9

· **UN Number:** 3082

· **Label** 9

· **Packaging group:** III

· **EMS Number:** F-A,S-F

· **Marine pollutant:** YES

· **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. [reaction product bisphenol-A (epichlorohydrin) epoxy resin (number average molecular weight ≤ 700)]

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 9

· **UN/ID Number:** 3082

· **Label** 9

· **Special marking:** Symbol (fish and tree)

· **Packaging group:** III



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- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. [reaction product bisphenol-A (epichlorohydrin) epoxy resin (number average molecular weight ≤ 700)]
- **UN "Model Regulation":** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

15 Regulations

- **Sara**
- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** Substance is not listed.
- **TSCA (Toxic Substances Control Act):** Substance is listed.
- **Proposition 65**
- **Chemicals known to cause cancer:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **Carcinogenicity categories**
- **EPA (Environmental Protection Agency)** Substance is not listed.
- **IARC (International Agency for Research on Cancer)** Substance is not listed.
- **NTP (National Toxicology Program)** Substance is not listed.
- **TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
- **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.
- **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:

Xi Irritant

N Dangerous for the environment

· Risk phrases:

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

2 Keep out of the reach of children.

28 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).

37/39 Wear suitable gloves and eye/face protection.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· Special labeling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.

16 Other information

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.

· 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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

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ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)



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PART – B

Section 1: Identification of the substance/mixture and of the company/undertaking

	Product identifier
Trade name or designation of the mixture :	EPOXY FG HARDNER (PART B)
Registration number -	
Synonyms	None.
Date of first issue	29/07/2014
Version number	01
Identified uses	Epoxy Curing Agent.
Uses advised against	None known.

Details of the supplier of the safety data sheet

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Section 2: Hazards identification

Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R42/43

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	May cause sensitisation by inhalation and skin contact.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	May cause sensitization by inhalation and skin contact. May cause damage to the liver and kidneys.
Main symptoms	Sensitisation. Wheezing. Upper respiratory tract irritation. Skin irritation. Moderate eye irritation.

Label elements

Label according to Directive 67/548/EEC or 1999/45/EC as amended

Contains:	Ethylenediamine
R-phrases	R42/43 May cause sensitisation by inhalation and skin contact.
S-phrases	S23 Do not breathe gas/fumes/vapour/spray. S24/25 Avoid contact with skin and eyes. S36/37 Wear suitable protective clothing and gloves. S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). S60 This material and its container must be disposed of as hazardous waste.

Supplemental label information Not applicable.

Other hazards Not assigned.

Section 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Alkylated phenolic polyamine	98.5	68413-28-5			
Ethylenediamine	1.5	107-15-3 203-468-6		612-006-00-6	

Classification: R10, C;R34, Xn;R21/22, R42/43

Composition comments The full text for all R-phrases is displayed in Section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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Section 4: First aid measures

Description of first aid measures

Inhalation	Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort occurs.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of allergic reaction or other skin disorders: Seek medical attention and bring along these instructions.
Eye contact	Get medical attention if irritation develops and persists. Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.
Ingestion	Only induce vomiting at the instruction of medical personnel. Rinse mouth thoroughly. Get medical attention if irritation develops and persists.

Most important symptoms and effects, both acute and delayed

Skin irritation. Wheezing. Sensitisation. Moderate eye irritation. Upper respiratory tract irritation.

Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. Treat symptomatically.

Section 5: Firefighting measures

General fire hazards Not available.

Extinguishing media Suitable extinguishing media

Unsuitable extinguishing media

Special hazards arising from the substance or mixture

Advice for firefighters Special protective equipment for firefighters

Special fire fighting procedures

Foam. Carbon dioxide (CO₂). Dry powder. Water fog.

None known.

During fire, gases hazardous to health may be formed.

Not available.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures For non-emergency personnel

Avoid inhalation of vapours/spray and contact with skin and eyes. Wear suitable protective clothing. See Section 8 for personal protective equipment.

For emergency responders

Not available.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up

Collect with absorbent, non-combustible material into suitable containers. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Collect spillage. Cover with inert, absorbent material and remove to disposal container.

Reference to other sections

Not available.

Section 7: Handling and storage

Precautions for safe handling Handle and open container with care. Provide adequate ventilation. Avoid inhalation of vapors/mist and contact with skin and eyes. Wear appropriate personal protective equipment. Change contaminated clothing. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a well-ventilated place. Store away from incompatible materials.

Specific end use(s) Not available.

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

No exposure limits noted for the ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

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Recommended monitoring procedures

DNEL

Not available.

PNEC

Not available.

Exposure controls Appropriate engineering controls

Not available.

Provide adequate ventilation and minimise the risk of inhalation of vapours. An eye wash bottle must be available at the work site.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required.

Eye/face protection

Wear approved safety glasses or goggles.

Skin protection

- Hand protection

Wear protective gloves. Rubber gloves are recommended.

- Other

Not available.

Respiratory protection

In case of inadequate ventilation: Use respiratory equipment with gas filter, type A2.

Thermal hazards

Not available.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls

Environmental manager must be informed of all major releases.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Reddish brown viscous liquid; slight amine and aromatic odor.

Physical state

Liquid.

Form

Viscous liquid.

Colour

Reddish-brown

Odour

Slightly amine odor.

Odour threshold

Not available.

pH

10.5

Melting point/freezing point

Not available.

Boiling point, initial boiling

point, and boiling range

> 93.3 °C (> 200 °F)

Flash point

97.8 °C (208 °F) Pensky-Martens Closed Cup

Auto-ignition temperature

Not applicable.

Flammability (solid, gas)

Not available.

Flammability limit – lower (%)

Not available.

Flammability limit – upper (%)

Not available.

Oxidising properties

Not applicable.

Explosive properties

Not applicable.

Explosive limit

Not applicable.

Vapour pressure

Not applicable.

Vapour density

Not applicable.

Evaporation rate

Not applicable.

Relative density

0.98 @ 25°C, (H₂O=1)

Density

8.2 lb/gal @ 25°C

Solubility (water)

Slightly soluble.

Partition coefficient

(n-octanol/water)

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

Percent volatile

2 % w/w (105°C)

Other information

No relevant additional information available.



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Section 10: Stability and reactivity

Reactivity	Not available.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidising agents. Strong acids. Reactive organometallic compounds.
Hazardous decomposition products	Carbon oxides. Nitrogen Oxides.

Section 11: Toxicological information

General information	Not available.
Information on likely routes of exposure	
Ingestion	Ingestion may cause irritation and malaise.
Inhalation	May cause irritation to the respiratory system.
Skin contact	Prolonged skin contact may cause irritation.
Eye contact	May cause eye irritation on direct contact.
Symptoms	Not available.
Information on toxicological effects	
Acute toxicity	Ingestion may cause irritation and malaise.
Components Test results	Ethylenediamine (107-15-3) Acute Dermal LD50 Rabbit: 730 mg/kg Acute Oral LD50 Rat: 500 mg/kg Causes skin irritation.
Skin corrosion/irritation	Causes eye irritation.
Serious eye damage/eye irritation	May cause sensitization by inhalation.
Respiratory sensitization	May cause sensitization by skin contact.
Skin sensitization	No data available.
Germ cell mutagenicity	No carcinogenicity data available for this product.
Carcinogenicity	No data available.
Reproductive toxicity	
Specific target organ toxicity - single exposure	Blood. May cause damage to organs . Kidneys. Respiratory system.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure: Liver. Kidneys. Visual organs.
Aspiration hazard	None known.
Mixture versus substance information	Not available.
Other information	No other specific acute or chronic health impact noted.

Section 12: Ecological information

Toxicity	No toxicity data noted for the ingredient(s).
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility	The product is slightly soluble in water.
Environmental fate -Partition coefficient	Not available.
Mobility in soil	Not available.
Results of PBT and vPvB assessment	Not available.
Other adverse effects	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Section 13: Disposal considerations

Waste treatment methods	
Residual waste	Waste is suitable for incineration. Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
EU waste code	08 04 09*
Disposal methods/information	This material and/or its container must be disposed of as hazardous waste. Avoid discharge into water courses or onto the ground. Disposal recommendations are

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based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Section 14: Transport information

ADR

The product is not covered by international regulation on the transport of dangerous goods.

RID

The product is not covered by international regulation on the transport of dangerous goods.

ADN

The product is not covered by international regulation on the transport of dangerous goods.

IATA

The product is not covered by international regulation on the transport of dangerous goods.

IMDG

The product is not covered by international regulation on the transport of dangerous goods.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code :No information available.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V Not listed.

Directive 96/61/EC concerning integrated pollution prevention and control (IPPC) : Article 15, European Pollution Emission Registry (EPER) Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List Not listed.

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

Chemical safety assessment Not available.

Section 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

Not available.

Wording of the R-phrases in sections 2 and 3

R10 Flammable.

R21/22 Harmful in contact with skin and if swallowed.

R34 Causes burns.

R42/43 May cause sensitisation by inhalation and skin contact.

Training information

Not available.

Disclaimer To the best of our knowledge, the information contained herein is accurate. However no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability to assure proper use, disposal, and safety of these materials.