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1. IDENTIFICATION

Product name:	Fester SIP I 620 PA	IDH number:	2949446
Product type/	Epoxy resin		
Recommended use:		Region:	Mexico
Restriction of Use:	None identified	Contact information:	
Company address:		Telephone: +52 (55) 33003000	
Henkel Capital S.A. de C.V.		SETIQ,,Telephone 01-800-00-214-00 (5559-1588)	
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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER:

- H227 - COMBUSTIBLE LIQUID.
- H302 - HARMFUL IF SWALLOWED.
- H315 - CAUSES SKIN IRRITATION.
- H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
- H319 - CAUSES SERIOUS EYE IRRITATION.
- H330 - FATAL IF INHALED.
- H334 - MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
- H335 - MAY CAUSE RESPIRATORY IRRITATION.
- H351 - SUSPECTED OF CAUSING CANCER.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	1
SKIN IRRITATION	2
EYE IRRITATION	2A
RESPIRATORY SENSITIZATION	1
SKIN SENSITIZATION	1
CARCINOGENICITY	2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



Precautionary Statements

Prevention: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash affected area thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves, clothing, eye and face protection.
P284 - [In case of inadequate ventilation] wear respiratory protection.

Response: P301+P312+P330 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P304+P340+P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical attention.
P333+P313 - If skin irritation or rash occurs: Get medical attention.
P337+P313 - If eye irritation persists: Get medical attention.
P342+P311 - If experiencing respiratory symptoms: Call a poison center or physician.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage: P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.

Disposal: P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards Not available.

Classification complies with NOM-018-STPS-2015 and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	UN no.:	Percentage*
Polypropylene glycol	25322-69-4		30 - 60
Toluene diisocyanate	26471-62-5		30 - 60
2-Butoxyethanol	111-76-2	2810	10 - 30

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

Inhalation: Immediately remove victim to fresh air. Get immediate medical attention.

Skin contact: Rinse with running water and soap. Get immediate medical attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.

Ingestion: Do not induce vomiting. Get immediate medical attention.

Most important symptoms and effects (acute and delayed): The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.

Indication of any immediate medical attention / special treatment needed: Not available.

5. FIRE FIGHTING MEASURES

Extinguishing media: carbon dioxide, foam, powder, water spray jet, fine water spray

Improper extinguishing agents: Not available.

Special firefighting procedures: Wear respiratory protection equipment according to ambient air conditions.

Unusual fire or explosion hazards: In the event of a fire, nitrogen oxides (NOx) can be released.

Hazardous combustion products: Irritating and toxic gases or fumes may be released during a fire.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: Remove with liquid-absorbing material (sand, peat, sawdust).

7. HANDLING AND STORAGE

Handling: Ensure that workrooms are adequately ventilated.

Storage: Ensure adequate ventilation. Store in sealed original container. Store in a dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Polypropylene glycol	None	None	10 mg/m ³ TWA Aerosol.	None
Toluene diisocyanate	0.005 ppm STEL Inhalable fraction and vapor. 0.001 ppm TWA Inhalable fraction and vapor. (SKIN) Inhalable fraction and vapor. (Respiratory sensitization) (Dermal sensitization)	None	None	None
2-Butoxyethanol	20 ppm TWA	50 ppm (240 mg/m ³) PEL (SKIN)	None	None

Engineering controls:	Ensure good ventilation/suction at the workplace.
Respiratory protection:	Suitable breathing mask when there is inadequate ventilation.
Eye/face protection:	Wear protective glasses.
Skin protection:	Wear protective equipment. Use of Butyl or Nitrile Rubber gloves is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	White
Odor:	Resinous
Odor threshold:	Not available.
pH:	Not applicable
Vapor pressure:	Not available.
Boiling point/range:	Not applicable
Melting point/ range:	Not available.
Density/Relative density:	Not applicable
Relative vapor density:	Not available.
Flash point:	78 °C (172.4 °F) Internal Henkel specification
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility:	Not available.
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	Not available.
Dynamic viscosity:	3,000 - 6,000 cp
Kinematic viscosity:	Not available.
Particle characteristics:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Reactivity:	Not available.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	In case of fire toxic gases can be released.
Incompatible materials:	Reaction with alcohols Reaction with amines
Conditions to avoid:	Avoid excessive heat and ignition sources.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation: May be harmful or fatal if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact: Causes skin irritation. May cause an allergic skin reaction.
Eye contact: Causes serious eye irritation.
Ingestion: Harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s
Polypropylene glycol	Inhalation LC50 (Rat, 4 h) = > 2.34 mg/l
Toluene diisocyanate	Oral LD50 (Rat) = 3,060 mg/kg Oral LD50 (Mouse) = 1,950 mg/kg Inhalation LC50 (Rat, 4 h) = 360 mg/m3 Inhalation LC50 (Rat, 4 h) = 350 mg/m3
2-Butoxyethanol	Oral LD50 (Rat) = 560 mg/kg Oral LD50 (Mouse) = 1.2 g/kg Oral LD50 (Rabbit) = 0.32 g/kg Oral LD50 (Rat) = 1.48 g/kg Oral LD50 (Mouse) = 1,519 mg/kg Dermal LD50 (Rabbit) = 400 mg/kg Inhalation LC50 (Rat, 4 h) = 523 ppm Inhalation LC50 (Rat, 4 h) = 545 ppm

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Polypropylene glycol			
Toluene diisocyanate	Corrosive Irritant	Allergen	Bone Marrow Eyes Mutagen Respiratory Some evidence of carcinogenicity
2-Butoxyethanol	Irritant		Blood Central nervous system Kidney Liver

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polypropylene glycol	No	No	No
Toluene diisocyanate	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
2-Butoxyethanol	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Do not empty into drains / surface water / ground water.
Ecotoxicity: Not available.
Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility: Not available.
Other ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with local and national regulations.

14. TRANSPORT INFORMATION

Road transport ADR:

Proper shipping name: ISOCYANATE SOLUTION, TOXIC, N.O.S. (Toluylendiisocyanat 2,4/2,6)
Hazard class or division: 6.1
Identification number: UN 2206
Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Isocyanate solution, toxic, n.o.s. (Toluene diisocyanate)
Hazard class or division: 6.1
Identification number: UN 2206
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ISOCYANATE SOLUTION, TOXIC, N.O.S. (Toluene diisocyanate)
Hazard class or division: 6.1
Identification number: UN 2206
Packing group: III

15. REGULATORY INFORMATION

No additional information

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New information added in Section(s): 3, 8, 11

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DISCLAIMER: This information is considered correct, but it's not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance(s) and/or mixture and apply to the appropriate product for safety precautions.

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