

# SAFETY DATA SHEET

Conforms to the Directive N.1907/2006 (REACH)

## INDUSTRIA EPOFLEX 03 JOINT (B)

PRINTING DATE 07 2006

VERSION 5

REVISION 02 2020

### SECTION 1. Identification of the substance/mixture and of the company

#### Product identifier

- Trade name

**INDUSTRIA EPOFLEX 03 JOINT Comp. B**

#### Product type and use:

Hardener for epoxy systems  
Product for professional use

#### Details of the supplier of the safety data sheet

- Supplier:

**CIPA GRES SpA (Cipa Industrial Service)**  
**Via Statale 467, n.119 - 42013 Casalgrande (RE)**  
**Tel. +39 0522 846890 - Fax +39 0522 849910**  
**www.cipagres.it ; E-mail: info@cipagres.it**

- Further information from:

**ufficiotecnico@cipagres.it**

#### Emergency telephone number:

- Rica: tel. +39 0542 670689
- Poison Control Center of Milano Tel. 02/66101029 (CAV Hospital Niguarda - Milano)
- Poison Control Center of Pavia Tel. 0332/24444 (CAV Hospital Maugeri - Pavia)
- Poison Control Center of Bergamo Tel. 800 881300 (CAV Hospital Riuniti - Bergamo)
- Poison Control Center of Firenze Tel. 055/7947819 (CAV Hospital Careggi - Firenze)
- Poison Control Center of Roma Tel. 06/3054343 (CAV Hospital Gemelli - Roma)
- Poison Control Center of Roma Tel. 06/49978000 (Cav Hospital Umberto I - Roma)
- Poison Control Center of Napoli Tel. 081/7472870 (CAV Hospital Cardarelli - Napoli)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

- Product definition: Mixture

Physical-chemical effects harmful to human health and the environment

No other danger

- Classification: Reg. EC 1272/2008 (CLP)

H 302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H314	Causes severe burns and serious eye damage
H317	May cause an allergic skin reaction
H412	Harmful to aquatic life with long last term

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### 2.2 Label elements

Labelling Reg EC 1272/2008

Hazard pictograms:



- Attention: C Corrosive

- Dangerous ingredients:

3,6-diazoctan-1,8-diamine

3,6,9 Triazaundecan -1,11-diamine

3-aminomethyl-3.5.5, trimethylcyclohexylamine

Special provisions under the Annex XVII of the REACH and subsequent adjustments: None

### 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Based on available data, the product does not contain PBT substances

- vPvB: Based on available data, the product does not contain vPvB substances

## SECTION 3: Composition/information on ingredients

Description:

Mixture

Substances dangerous to health within the meaning of Directive 67/548 / EEC as amended, or for which there are exposure limits:

3,6-Diazoctane-1,6-diamine	3-4,99%
Reg.nr.: 01-2119487919-13-xxxx CAS: 112-24-3 EC : 203-950-6 INDEX: 612-059-00-5	Acute Oral Tox 4 H302 Acute Dermal Tox 4 H312 Eye Dam.1 H318 Skin Corr.1B, H314 Skin Sens. 1,1A H317 Aquatic Chronic 3 H412

right away:

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3,6,9,Triazaundecan-1,11diamine		3-4,99%
Reg.nr.: 01-2119487290-37-xxxx CAS: 112-57-2 EC: 203-986-2 ID:612-060-00-0	Acute Tox Derm 4 H312 Acute Oral Tox, 4 H302 Skin Corr,1 B H314 Skin Sens.1, H317 Aquatic Chron.2, H411	
3-aminomethyl-3,5,5-trimethylcyclohexylamine		3-4,99%
Reg.nr.: 01-2119514687-32-xxxx CAS: 2855-13-2 EC: 220-666-8 INDEX: 612-067-00-9	Acute Tox Derm 4 H312 Acute Oral Tox, 4 H302 Skin Corr,1 B H314 Skin Sens.1, H317 Aquatic Chronic 3 H412	
Benzyl Alcohol		7-9%
Reg.nr.: 01-21 194922630-38-xxxx CAS: 100-51-6 EC: 202-859-9 INDEX: 603-057-00-5	Acute Oral Tox,4 H302 Eye Irrit. 2 H 319 Inhal.Acute Tox,4 H 332	

For the full text of the hazard statements see paragraph 16

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- *After skin contact:*  
Wash immediately with plenty of soap and water .Remove contaminated clothes eliminate the in a safe way.
- *After eye contact:*  
Wash immediately with plenty of water for a sufficient length of timeRemove any contact lenses. Call in ophthalmologist.
- *Ingestion:*  
Do not induce vomiting, call a doctor immediately
- *Inhalation:*  
Portare la vittima all'aria aperta. Se i sintomi persistono, consultare un medico.

#### 4.2 Most important symptoms and effects, both acute and delayed

*Skin Contact:* May cause inflammation and sensitization.  
*Eyes Contact:* May cause irritation that may last up to 24 hours.  
*Ingestion:* Irritation of the mucous membranes of the throat and stomach.  
*Inhalation:* No known significant effects or critical dangers.

#### 4.3 Indication of any need to call a doctor and special treatments

In case of accident or illness, call a doctor and show the safety data sheet.

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### SECTION 5: Firefighting measures

#### 5.1 means of extinction

- Recommended fire extinguisher:

CO<sub>2</sub> foam, powder. Cool down the cases exposed to the fire with water forbidden fire extinguishers.

#### 5.2 Risk caused from combustion

Avoid to breath fumes, gas and vapours produced by the combustion. during the combustion toxics gases such as gas nitrosi, carbon monoxide may form.

#### 5.3 Recommendations for the persons assigned at the fire extinction

- Protective equipment:

Isolate the area promptly and move away all the people. Move the not interested cases in a safe zone  
Collect the water used for the extinction in special cases, do not discharge to sewers.

- Protective clothes:

Use suitable clothes, gloves and total protection mask for the face.  
Operate with proper respiratory equipment.

### SECTION 6: Measures in case of accidental dispersion

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Move people to a safer place

#### 6.2 Environmental precautions:

Contain spilled liquid with sand or inert absorbent material

Keep the product away from drains, surface waters and groundwater; in the case of runoff produced in a water course, drainage or soil contamination and vegetation please notify to the competent authorities.

#### 6.3 Methods and material for containment and cleaning up:

Absorb with inert material and remove in accordance to the law.

Wash with water And liquid detergent.

#### 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid the contact with skin and eyes

Avoid inhalation of vapors. Operate with the individuals precautions indicate at point 8.

Do not eat or drink during the work

The contaminated clothes have to be replaced before you entered in the dining areas

Do not use the empty cases until they have been cleaned.

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### 7.2 Conditions for safe storage, including any incompatibilities

keep in closed cases in a fresh place  
Keep away from food and drink

- *Indications for rooms:*  
operate in a suitable ventilated place.  
incompatible materials: none

### 7.3 Specific end use(s)

none in particular

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

*Exposure Limit Values DNEL:* Not available

*Exposure Limit Values PNEC:* Not available

### 8.2 Exposure controls

- *Hand protection:*

Wear suitable gloves



- *Material of gloves:*

PVC  
Neoprene  
Rubber  
We recommend LLPDE (0.06 mm) nitrile (0.4mm), butyl (0.5mm)

- *Eye protection:*

Wear goggles and appropriate hermetic full facial protection in case of possibility of spillage or leakage.



- *Skin protection:*

Work with appropriate clothing that provides total protection of the skin.

- *Respiratory protection:*

None required for normal use with adequate ventilation always use. All personal protective equipment must comply with the standard EC relative (as EN 374 for gloves and EN 166 for goggles, correctly maintained and stored in an appropriate manner).

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

- Apparence:	Liquid
- Colour:	Straw yellow
- Odor:	Ammoniacal
- Boiling point or initial boiling point and boiling range:	n.d.
- Flash point:	> 100°C
- Density at 25 °C:	0,99g/cm³
- Solubility in water:	Miscible
- Solubility in organic solvents:	Alcohols, Glicoeteri, Ketones
- Viscosity at 25 °C:	ca 60-80 mPa
- Specific gravity Vapour:	n.d.
- Flammable Limits in Air:	n.d.
- Auto-ignition temperature:	n.d.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Stable under normal conditions.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

It may inflame on contact with strong oxidizing agents.

#### 10.4 Conditions to avoid

The product is stable in normal conditions of use and storage.

#### 10.5 Incompatible materials

Amines, acids, strong oxidizing agents.

#### 10.6 Hazardous decomposition products:

In case of fire carbon oxides and fumes may liberate that could be dangerous for the health.

### SECTION 11: Toxicological information

#### Information on toxicological effects

- Acute toxicity:  
*Harmful by inhalation, in contact with skin and if swallowed*

Benzyl Alcohol		
Oral	LD50 Acute toxicity	1620 mg/kg (rat)
Inhalation	CL50 Acute toxicity	> 4,178 mg/l (rat) Exposure: 4h

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<b>3,6-diazoctan 1,8-diamine</b>		
Oral	LD50 Acute toxicity	ND (rat)
Skin	LD50 Acute toxicity	ND (rabbit)
<b>3,6,9-triazandecane-diamine</b>		
Oral	LD50 Acute toxicity	ND (rat)
Skin	LD50 Acute toxicity	ND (rabbit)
<b>3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>		
Oral	LD50 Acute toxicity	ND (rat)
Skin	LD50 Acute toxicity	ND (rabbit)

- Corrosive / irritating:

-Carcinogenicity: No known effects or critical dangers

-Mutagenicity: No known effects or critical dangers

There are no known teratogenic effects or critical dangers

-Developmental effects: No known effects or critical dangers

-Fertility effects: No known effect

### SECTION 12: Ecological information

Use the product according to the indications given in the technical form; avoid to release the product in the environment.

#### Toxicity

Toxic to aquatic organisms.may cause long term adverse effects to the aquatic environment.

#### 12.2 Mobility in the ground

n.a.

#### 12.3 Persistence and degradability

n.a.

#### 12.4 Potential of bio backlog

n.a.

#### 12.5 Results of the valuation PBT and vPvB

PBT: None

vPvB: None

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Recover if possible. Operate in accordance with current local and national regulations  
Dispose of this material and its containers at a hazardous or special waste collection point  
Do not release into the environment. Refer to special instructions/safety information sheets  
91/156/EEC, 91/689/EEC, 94/62/EEC and subsequent adjustments  
Disposal of hardened product: CER code 08 04 10  
Disposal of unhardened product: CER code 08 04 09

### SECTION 14: Transport information

#### 14.1 UN-Number or ID Number:

- ADR/RID-ADDN/RID, IMDG, IATA  
N.A.

#### 14.2 UN proper shipping name:

Amines, liquid, n.o.s.

#### 14.3 Dangerous class(es):

8 n.of danger 80

#### 14.4 Packing group:

III

#### 14.5 Environmental hazards:

P

#### 14.6 Special precautions for user

N.A.

Further information:

Code Tunnel E, Emergency Plan F-A.S-F

#### 14.7 bulk transport according to Annex II of Marpol 73/78 and the IBC Cod:

N.A.

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Leg. 3/2/1997 52 (Classification, packaging and labeling of dangerous substances)
  - Leg. 14/3/2003 n.65 (Classification, packaging and labeling of dangerous preparations)
  - Leg. 9/4/2008 81
  - Ministerial Decree 26/02/2004 Labour (Occupational Exposure Limits)
  - Ministerial Decree 03/04/2007 (Implementation of Directive No. 8/2006 / EEC
  - EC Regulation no. 1907/2006 REACH
  - EC Regulation no. 1272/2008 CLP
  - EC Regulation no. 790/2009 ATP 1 CLP
  - EU Regulation 453/2010 (Annex 1)
  - Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation n.1907 / 2006
- REACH and subsequent adaptations: NONE



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- Regulation n. 1272/2008 CLP s.m.i
- Directive n. 1999/45 / EC (Dangerous preparations) and subsequent amendments
- Directive n. 67/548 / EEC (substances) and s.m.i
- Dec.Lgs. 09/04/2008 n. 81 Title IX "Hazardous Substances" - Chapter I - Protection agents vehicle chemistry
- Directive 2000/39 / EC and subsequent amendments (Occupational exposure limits)
- Dec.Lgs. 03/04/2006 n. 152 and s.m.i (Environmental Regulations)
- Directive 105/2003 / EC (Seveso III): N.A.
- ADR - IMDG Code - IATA Regulations

### 15.2 Chemical safety assessment N.D.

#### SECTION 16: Other information

- Text of H phrases of section 3
- Full text of R-phrases and H-statements

H226 Flammable liquid and vapour  
H302 Harmful if swallowed  
H304 May be fatal if swallowed and enters airways  
H312 Nocivo per contatto con la pelle  
H314 Provoca gravi ustioni cutanee e gravi lesioni oculari  
H315 Causes skin irritation  
H317 May cause allergic skin reaction  
H318 Causes serious eye damage  
H319 Causes severe eye irritation  
H332 Harmful if inhaled  
H411 Toxic to aquatic life with long lasting effects  
H412 Harmful to aquatic life with long lasting effects

- Full text of other abbreviations:

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp.Tox.	Dangerous if aspired
Eye Irrit.	Eye irritation
Flam.Liq.	Flammable liquids
Repr.	Reproductive toxicity
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization

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### - Abbreviations and acronyms:

ADR	European Agreement concerning the international carriage of goods by road
CAS	Chemical Abstracts Service
CLP	Classification, Labeling, Packaging
DNEL	Derived No Effect Level
EINECS	European Inventory of Existing Commercial Chemical European
GefStoffV	Ordinance on Hazardous Substances in Germany
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IATA DGR	Dangerous Goods Regulation of International Air Transport Association
ICAO	International Civil Aviation Organization
ICAO-T.I.	Technical Instructions of the "International Civil Aviation Organization"
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration for 50% of the population of Test
LD50	lethal dose for 50% of the population of Test
LTE	Long-term exposure
PNEC	Predicted No Effect Concentration
RID	Regulations concerning the international carriage of dangerous goods by rail
ETS	exposure in the short term
STEL	limit for short exposure time
STOT	organ specific toxicity
TLV	Threshold limit value for occupational exposure
TWA	limit for the weighted average over 8 hours
OEL	Occupational Exposure Limit Value Community
VLE	Value occupational exposure limit
WGK	Hazard Class Water in Germany
N.A.	not applicable
N.a.	not available

This sheet has been revised in all sections in accordance with Regulation 453/2010 / EU

*The information contained herein is based on our knowledge at the date indicated above. It refers solely to the product indicated and constitutes no guarantee of particular quality. The user must verify the suitability and completeness of such information in relation to the specific use intended.*