

1 Identification of the substance / mixture and of the company / enterprise

1.1 Product identifier

Product Code: ART. 1029
 Trade Name: IPER VETRO - INDURITORE B

1.2 Relevant identified uses of the substance or mixture and uses advised against

Description/Usage: INDURITORE B (Part B)

1.3 Details of the supplier of the safety data sheet

Supplier: Giorgio Graesan & Friends s.a.s. Di Shila Graesan
 Address: Via Bergamo n. 24
 Place and country: 20037 - Paderno Dugnano MI (IT)
 Phone: + 39 02 99039560
 Fax: + 39 02 99039590
 Email of the person responsible: tecnico@giorgiograesan.it

1.4 Emergency telephone number

For urgent inquiries refer to + 39 02 99039541 -
 monday to friday 8.30-12.30 / 14.00-18.00

2 Hazards identification

2.1 Classification of the substance or mixture

The product is classified as hazardous as per Directive (EC) 1272/2008 (CLP) (and subsequent amendments). The product therefore requires a safety data sheet in compliance with the provisions of Regulation (EC) 1907/2006 and subsequent amendments. Any additional information regarding risks to health and/or the environment are reported in the sec. 11 and 12 of this sheet.

2.2 Classification and hazard indications

H302: Acute toxicity, category 4 -
 Harmful if swallowed.
 H314: Skin corrosion, category 1B -
 Causes severe skin burns and eye damage.
 H318: serious eye damage, category 1 -
 Causes serious eye damage.
 H317: Skin sensitization, category 1 -
 It may cause an allergic reaction to skin..
 H412: Danger to the aquatic environment, chronic toxicity, category 3 -
 Harmful to aquatic life with long lasting effects..

2.3 Label elements

Danger label in accordance with Directive (EC) 1272/2008 (CLP) and subsequent amendments.

Hazard pictograms:



Warnings:

Attention

2.4 Hazard statements

H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H317: It may cause an allergic reaction to skin.
 H412: Harmful to aquatic life with long lasting effects..

2.5 Safety advice

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P264: Wash thoroughly after handling.
 P280: ear protective gloves/protective clothing/eye protection/face protection.
 P303 + P361 + P353: IN CASE OF CONTACT WITH SKIN (or hair): Take off all contaminated clothing. Rinse the skin (or take a shower).
 P305 + P351 + P338: IN CASE OF CONTACT WITH EYES: Rinse thoroughly for several minutes. Remove any contact lenses, if it is easy to do. Continue to rinse.
 P310: Immediately contact a POISON CENTER or a doctor.

2.6 Other hazards

Based on available data, the product does not contain any PBT or vPvB in percentage higher than 0.1%.

3 Composition / information on ingredients

3.1 Substances: Non relevant information.

3.2 Mixtures x: conc.% Classification 1272/2008 (CLP)

Reaction product of 3-aminomethyl

CAS 38294-64-3 $62 \leq x < 66$ Skin Corr. 1B H314, Skin Sens. 1 H317,
 Aquatic Chronic 3 H412

CE 500-101-4 INDEX -

Nr. Reg. 01-2119965165-33-0001

BENZYL ALCOHOL

CAS 100-51-6 $25.5 \leq x < 27$ Acute Tox. 4 H302, Acute Tox. 4 H332

CE INDEX -

References: The full text for all hazard statements is given in section 16.

4 First aid measures soccorso

4.1 Description of first aid measures

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: continue flushing during transport to hospital. Bring along these instructions.

SKIN CONTACT: Remove contaminated clothing immediately and wash skin with soap and water. Wash contaminated clothing before reuse.

INHALATION: Move injured person into fresh air. If breathing stops, practice artificial respiration. Immediately call a doctor.

INGESTION: Immediately call a doctor. Do not induce vomiting. Do not give anything that is not expressly authorized by the doctor.

4.2 Most important symptoms and effects, both acute and delayed

No known specific information on symptoms and effects caused by the product.

4.3 Indication of any immediate medical attention and special treatment needed

Information not available.

5 Firefighting measures

5.1 Extinguishing media

SUITABLE EXTINGUISHING MEDIA: Extinguishing media are the conventional: carbon dioxide, foam, powder and nebulised water.

NOT SUITABLE EXTINGUISHING MEDIA: None in particular.

5.2 Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE: Do not breathe combustion products.

5.3 Advice for firefighters

GENERAL INFORMATION: cool the containers by spraying with water to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention equipment. Collect extinguishing water to prevent the product to percolate in drains. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

EQUIPMENT: normal clothes to fight the fire, as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame-resistant gloves (EN 659) and Firefighter boots (HO A29 or A30).

6 Accidental release measures

6.1 Personal Protection, protective equipment and emergency procedures

Block the loss if there is no danger. Wear suitable safety equipment (including individual safety equipment listed in Section 8 of the Material Safety Data Sheet) to prevent skin, eye and personal clothing contamination. These guidelines apply to both clerks and those who work for the emergency interventions.

6.2 Environmental precautions:

Do not allow the product to percolate in drains, watercourses, or open water.

6.3 Methods and materials for containment and cleaning up:

Aspirate the spilled product into a suitable container. If the product is flammable, use explosion-proof equipment. Assess the compatibility of the container to be used with the product, checking section 10. Absorb remaining material with inert absorbent material. Ensure sufficient ventilation of the affected area. Check

section 7 for any incompatibilities with the material of the containers. The disposal of contaminated material must be made in accordance with section 13.

6.4 **Reference to other sections:**
Any information on personal protection and disposal is given in sections 8 and 13.

7 Handling and storage

7.1 **Precautions for safe handling**

Handle the product after consulting all other sections in this security sheet. Avoid dispersal of the product in the environment. Do not eat, drink or smoke while handling it. Remove contaminated clothing and protective equipment before entering the areas where you eat.

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

Keep the product in clearly labeled containers. Keep containers closed, in a well-ventilated place, away from direct sunlight. Store containers away from any incompatible materials, checking section 10

7.3 **Specific end use(s):**

Information not available.

8 Exposure controls / personal protection

8.1 **Control parameters**

Normative References:

DEU Deutschland MAK-und BAT-Werte-Liste 2012

AMORPHOUS SILICATE HYDRATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m ³	ppm	mg/m ³	ppm	
AGW	DEU	4				INALAB
MAK	DEU	4				INALAB

Legend: (C)= CEILING; INALAB = Inhalable fraction;
RESPIR = Fraction breathable; TORAC = Fraction Thoracic.

8.2 **Exposure controls**

Considering that the use of adequate technical measures should always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration.

For the selection of personal protective equipment, if necessary, ask your chemical suppliers for advice. The individual protection devices must bear the CE marking which certifies their compliance with the regulations in force. Provide emergency shower with visocular basin.

HANDS PROTECTION: Protect your hands with category III work gloves (ref. EN 374). The following must be considered for the final choice of the work glove material: compatibility, degradation, break time and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use, as it is unpredictable. The gloves have a wear time that depends on the duration and the mode of use.

SKIN PROTECTION: Wear work clothes of category I with long sleeves and safety footwear for professional use of category II (ref. Directive 89/686/EC and EN ISO 20344). Wash with soap and water after removing protective clothing.

EYES PROTECTION: We recommend wearing tight protective goggles (ref. EN166). If there is the risk of being exposed to squirts or splashes during work, it is necessary to provide an adequate protection of the mucous membranes (mouth, nose, eyes) in order to prevent accidental absorption.

PROTECTION OF RESPIRATORY TRACTS: In case of exceeding the threshold value (eg. TLV-TWA) of the substance or one or more of the substances present in the product, consider wearing a mask with type A filter, whose class (1, 2 or 3) will be chosen according to the maximum concentration of use. (Ref. EN 14387). In the case were present gases or vapors of a different nature and/or gases or vapors with particles (aerosols, fumes, mists, etc.) you should make use of combined type filters. The use of means of respiratory protection is required if the technical measures taken are not sufficient to limit worker exposure to the considered threshold values. The protection provided by masks is in any case limited. In the

case where the substance in question is odorless or its olfactory threshold is higher than the relative TLV-TWA and in case of emergency, wear an open circuit compressed air breathing apparatus (ref. Standard EN 137) or an outside air breathing apparatus (ref. standard EN 138). For the correct choice of respiratory protection device, refer to Standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS: Emissions from production processes, including those from ventilation should be checked for the purposes of compliance with environmental protection. Product residues should not be disposed without control in drains or waterways.

9 Proprietà fisiche e chimiche

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

Physical State:	Liquid / Dense
Colour:	straw yellow
Odour:	of amine
Olfactory threshold:	Not available
PH:	Not available
Melting Point:	Not available
Boiling Point:	> 200 °C
Boiling Range:	Not available
Flashpoint:	> 100 °C
Evaporation rate:	Not available
Flammability of solids and gases:	Not available
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Lower explosive limit:	Not available
Upper explosive limit:	Not available
Vapour Pressur:	0,3
Density of vapours:	Not available
Relative density:	1.01 Kg/liter
Solubility in water:	Not available
Distribution coefficient/n-octano/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not applicable
Oxidizing properties:	Not applicable

9.2 **Other information**

VOC (Directive 2004/42/EC) : 38.36 % - 387.44 g/liter

10 Stability and reactivity

10.1 **Reactivity:**

There are no particular risks of reaction with other substances in normal usage conditions.

10.2 **Chemical stability:**

This product is considered stable in normal usage and storage conditions.

10.3 **Possibility of hazardous reactions:**

There are no foreseeable hazardous reactions in normal usage and storage conditions.

10.4 **Conditions to avoid:**

None in particular. However, observe normal safety measures used in handling chemical substances.

10.5 **Incompatible materials:**

Information not available.

10.6 **Hazardous decomposition products:**

Information not available.

11 Toxicological information

In the absence of experimental toxicological data on the product itself, any product's potential health danger of the product has been evaluated basing on the properties of the substances contained, according to the criteria laid down in the classification reference standards. Consider therefore the concentration of the individual dangerous substances mentioned in section 3, in order to assess the toxicological effects of the product's exposure.

11.1 Information on toxicological effects:

Metabolism, kinetics, mechanism of action and other information:

Information not available

Information on likely routes of exposure:

Information not available

Immediate, delayed, and chronic effects from short and long-term exposure:

Information not available

Interactive effects:

Information not available

ACUTE TOXICITY

LC50 (inhalation) of the mixture: > 20 mg/l

LD50 (oral) of the mixture: 1852 mg/kg

LD50 (dermal) of the mixture: Not classified (no relevant component)

Skin Corrosion/Irritation:	Corrosive for the skin	
Serious eye damage/irritation:	Causes serious eye damage	
Respiratory or skin sensitisation:	Skin sensitization	
Germ cell mutagenicity:	N.R.C.	
Carcinogenicity:	N.R.C.	
Aspiration hazard:	N.R.C.	
Reproductive Toxicity:	N.R.C.	
Specific Target Organ Toxicity (STOT) - Single exposure:		N.R.C.
Specific Target Organ Toxicity (STOT) - Repeated exposure:		N.R.C.

N.R.C. = Based on available data, the classification criteria are not met

12 Ecological information

The product is considered to be hazardous to the environment and is toxic to aquatic organisms with long-term adverse effects on the aquatic environment.

12.1 Toxicity:

Information not available.

12.2 Persistence and degradability:

The paraffinic hydrocarbons present can be considered degradable in water and in the air. They distribute mostly in the air. The small part that is distributed in the water and which does not biodegrade tends to accumulate in the fish.

12.3 Bioaccumulative potential:

Information not available.

12.4 Mobility in soil:

Information not available.

12.5 Results of PBT and vPvB assessment:

Based on available data, the product does not contain any PBT or vPvB in percentage higher than 0.1%.

12.6 Other adverse effects:

Information not available.

13 Disposal considerations

13.1 Waste treatment methods:

Reuse, if possible. The hazardousness of the waste that partially contains this product must be evaluated according to the laws in force. Disposal must be

performed through an authorized waste management, in compliance with national and local laws.

The transport of waste may be subject to ADR.

13.2 CONTAMINATED PACKAGING:

Contaminated packaging must be recovered or disposed in compliance with national waste management regulations.

14 Transport information

14.1 UN Number:

ADR / RID, IMDG, IATA: 2735

14.2 UN proper shipping name:

ADR / RID: Ammine liquide corrosive, N.O.S. or Poliammine liquide corrosive, N.O.S.

IMDG: Amines, liquid, corrosive, N.O.S. or Polyamines, liquid, corrosive, N.O.S.

IATA: Amines, liquid, corrosive, N.O.S. or Polyamines, liquid, corrosive, N.O.S.

14.3 Transport hazard class transport:

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4 Packing group:

ADR / RID, IMDG, IATA: III

14.5 Environmental hazards:

ADR / RID: NO

IMDG: NO

IATA: NO

14.6 Special precautions for user:

ADR / RID: HIN - Kemler: 80 Limited Quantity: 5 L

Tunnel restriction code: (E)

Special Provision: -

IMDG: EMS: F-A, S-B Limited Quantity: 5 L

IATA: Cargo: Maximum Quantity: 60 L

Packing instructions: 856

Pass.: Maximum Quantity: 5 L

Packing instructions: 852

Special instructions: A3, A803

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Information not relevant.

15 Regulatory information

15.1 Specific safety, health and environmental regulations.

Seveso category - Directive 2012/18 / EC: None

Restrictions related to the product or to the substances contained according to Annex XVII Regulation (EC) 1907/2006: Product Point 3.

Candidate List substances (Article 59 REACH): Based on available data, the product does not contain SVHC substances in percentages greater than 0.1%.

Substances subject to authorization (Annex XIV REACH): None.

Substances subject to export notification obligation Reg. (EC) 649/2012: None.

Substances subject to the Rotterdam Convention: None.

Substances subject to the Stockholm Convention: None.

Health Checks: Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out according to the provisions of art. 41 of Legislative Decree No. 81 of April 9, 2008 unless the risk for the safety and health of the worker has been assessed as irrelevant, according to the provisions of art. 224 par. 2.

VOC (Directive 2004/42/EC): High-performance two-component paints.

VOC expressed in g / liter of product ready to use: 387.44

Maximum limit: 500.00

15.2 Chemical safety assessment

A chemical safety assessment for the mixture and the substances it contains has not been elaborated yet.

16 Other information

Text of hazard statements (H) mentioned in sections 2-3 of the MSDS:

Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 3	Danger to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H332	Fatal if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H317	It may cause an allergic reaction to skin.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

ADR: European Agreement concerning the transport of dangerous goods by road.
CAS NUMBER: Chemical Abstract Service Number.
EC50: Concentration that gives effect to 50% of the population subject to testing.
EC NUMBER: ID number in ESIS (European archive of existing substances).
CLP: Directive EC 1272/2008.
DNEL: Derived No Effect Level.
EmS: Emergency Schedule.
GHS: Globally Harmonised System for classification and labeling of chemicals.
IATA DGR: Regulation for the transport of dangerous goods by the International Air Transport Association.
IC50: Concentration of immobilization of 50% of the population subject to testing.
IMDG: International Maritime Code for Dangerous Goods.
IMO: International Maritime Organization.
INDEX NUMBER: ID number in Annex VI of the CLP.
LC50: Lethal concentration 50%.
LD50: Lethal dose 50%.
OEL: Occupational Exposure Level.
PBT: Persistent, bioaccumulative and toxic according to REACH.
PEC: Predicted Environmental Concentration.
PEL: predictable level of exposure.
PNEC: Predicted No Effect Concentration.
REACH: EC Regulation 1907/2006.
RID: Regulations concerning the international carriage of dangerous goods by rail.
TLV: Threshold Limit Value.
TLV CEILING: Concentration which should not be exceeded during any time of occupational exposure.
TWA STEL: Short Term Exposure Limit.
TWA: Exposure Limit Weighted average.
VOC: Volatile organic compound.
vPvB: Very persistent and very bioaccumulative according to REACH.
WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Directive (EU) 1907/2006 of the European Parliament (REACH)
 2. Directive (EC) 1272/2008 of the European Parliament (CLP)
 3. Directive (EU) 790/2009 of the European Parliament (I Atp. CLP)
 4. Directive (EU) 2015/830 of the European Parliament
 5. Directive (EU) 286/2011 of the European Parliament (II Atp. CLP)
 6. Directive (EU) 618/2012 of the European Parliament (III Atp. CLP)
 7. Directive (EU) 487/2013 of the European Parliament (IV Atp. CLP)
 8. Directive (EU) 944/2013 of the European Parliament (V Atp. CLP)
 9. Directive (EU) 605/2014 of the European Parliament (VI Atp. CLP)
 10. Directive (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
 11. Directive (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA Agency Website
 - Database of SDS models of chemicals
 - Ministry of Health and Higher Institute of Health

NOTE TO USER: The information in this security sheet are based on knowledge available to us at the date of the last revision. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. It should not be construed as a guarantee on any specific product property. Since the use of this product is not subject to our direct control, users must, under their own responsibility, follow the laws and provisions in force concerning health and safety. We do not take responsibility for improper use. Provide adequate training to personnel involved in the use of chemicals.