



Safety Data Sheet pursuant to REACH Regulation (EC) No. 1907/2006, Annex II, as amended by Regulation (EC) No. 453/2010 and pursuant to Regulation (EC) No. 1272/2008 and its subsequent amendments.

SECTION 1: Identification of the substance or mixture and of the company or undertaking

1.1 Product Id: Product Name *

Product Code * FIXATIVE P.U.

Product Description * Product 2015784

Type * Adhesion promoter for Liquid polyurethane

systems

1.2 Identified relevant uses of the substance or mixture and discouraged uses:

Identified uses * Primer, solvent base

Discouraged uses * Not suitable for use in DIY applications.

1.3 Supplier data of the Safety data sheet: Supplier*

-

Contact person *

1.4 Emergency Phone:

Phone Number * Phone 24 hours/ 365 days of the National Institute of Toxicology: (0034) 91 562 04 20

Email *

SECTION 2. Hazard identification

2.1 Classification of the substance or mixture:

Product Definition * Mixing

Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS] :

H225: Highly flammable liquid and vapours. H319: Causes severe eye

irritation.

H336: May cause drowsiness and vertigo.

Physico-chemical hazards Health Hazards * Product that can release vapors that easily form flammable mixtures. It can be

* irritating to the skin, nose, throat, and lungs.

It can cause degradation of the central nervous system.

If swallowed, it can be aspirated and can cause lung damage . No

Environmental hazards * significant danger.

The full text of the classifications mentioned in this section is specified in Chapter 16.

2.2 Label elements : Hazard

pictograms



Word of Warning

Hazardous components

to be indicated on the

labelling:

Hazard indicators

Danger.

* ISOPROPANOL

 H225 Highly flammable liquid and vapours. H319 Causes severe eye

irritation.

H336: May cause drowsiness and vertigo.

Precautionary statements:

General

* Not applicable.

Prevention

P201 Ask for instructions before use

P202 Do not handle the substance before you have read and understood the safety instructions.

__ODQWHQHU DOHMDGR GH IXHQWHV GH FDORU, FKLVSDV, OODPD DELHUWD R VXSHUILFLHV

P233 Keep the container tightly closed.

P240 Grounding/equipotential link of the vessel and receiving equipment. P261(vapors) Avoid breathing dust/smoke/gas/mist/vapors/aerosol. P280 Wear

gloves/garments/goggles/protective mask .

Answer

* P304+P340 IN CASE OF INHALATION: Transport the victim to the outside and keep him at rest in a

comfortable position to breathe.

P337+P313 If eye irritation persists: Consult a doctor.

P305+P351+P338 IN CASE OF EYE CONTACT: Rinse carefully with water for several minutes.

Remove contact lenses , if worn and easy. Continue clarifying.

Storage

* P403+P235 Store in a well-ventilated place. Keep in a cool place.

Deletion

* P501 Dispose of the contents or container in accordance with local/regional/national/international

regulations.

2.3 Other hazards:

Steam can form explosive mixtures with air.

Vapors are denser than air and can therefore spread on the ground and come into contact with ignition sources distant from the vanishing point. Risk of static electricity generation during handling.

SECTION 3: Composition/component information

3.1 Substances:

Not applicable

3.2 Mixes:

Chemical Description:

Dissolution of silane in organic solvent.

Hazardous components:

Chemical name * ISOPROPANOL CAS No 67-63-0 . 200-661-7

EC No 01-2119457558-25-XXXX

>= 75 - < 100

REACH Registration Number *

% by weight *

Classification under * Flam. Liq. 2
Regulation (EC) No. H225 Eye Irrit.

1272/2008 [CLP] H319

STOT SE 3 H336, [Asp. Tox. 2 H305]

Notes

* Substance with occupational exposure limits

Occupational exposure limits, if any, are set out in Section 8.

SECTION 4. First aid

4.1 Description of first aid:

General * In case of doubt or if symptoms persist, seek medical assistance. Do not give anything orally to an

unconscious person. If you are conscious, place in a recovery position and seek medical assistance.

Phone 24 hours / 365 days of the National Institute of Toxicology: (0034) 91 562 04 20.

Inhalation * In case of malestar after inhalation of steam / aerosol: breathe fresh air, seek medical help.

Skin contact Eye * Remove contaminated clothing and footwear. Wash the skin perfectly with soap and water, or with a

recognized skin cleanser. DO NOT use solvents or diluents.

contact * Check if the victim is wearing contact lenses and in this case, remove them. Rinse your eyes immediately

with running water for at least 15 minutes with your eyelids open. Immediately seek medical help. Consult

with an ophthalmologist.

Ingestion * In case of ingestion, contact the doctor immediately and show the label or container. Keep the person

warm and at rest. Do not cause vomiting.

Protection of first aid

personnel

No action that poses a personal risk or without adequate training should be taken. It can be dangerous

for the person providing help by giving mouth-to-mouth breathing. Wash contaminated clothing

thoroughly with water before taking it off, or wear gloves.

4.2 Main symptoms and effects, acute and

delayed: Potential acute health effects:

Eye contact * It causes severe eye irritation.

Inhalation * No significant effects or critical risks are known.

Skin contact * Causes skin irritation. It can cause an allergic reaction to the skin. No

Ingestion * significant effects or critical risks are known.

Signs /symptoms of overexposure:

Eye contact * Adverse symptoms may include: pain or irritation, tearing, redness No

Inhalation * specific data.

Skin contact * Adverse symptoms may include: irritation, redness. No

Ingestion * specific data.

4.3 Indication of any medical care and special treatment to be provided immediately:

Notes to the doctor

* In case of inhalation of decomposing products in a fire, symptoms may appear later. The exposed person may need to be under medical surveillance for a minimum period of 48 hours.

SECTION 5. Fire-fighting measures

5.1 Means of extinction:

Appropriate means * Dust extinguisher, foam.

Inappropriate means * Do not use water jet.

5.2 Specific hazards arising from the substance or mixture:

Dangers arising from the substance or mixture

* Flammable liquids and vapors. In the case of fire or prolonged heating of the container, the pressure inside can increase with the consequent risk of explosion. Liquid waste that leaks into the sewer can cause a fire or explosion hazard. This material is harmful to aquatic life with long-lasting effects. Firefighting water contaminated with this material must be prevented from entering waterways, drains or sewers.

Decomposition products can include the following materials: carbon dioxide , carbon monoxide, nitrogen oxide.

Decomposition products * dangerous thermal

5.3 Recommendations for firefighting personnel:

Special measures to be taken* by firefighting teams

In case of fire, quickly isolate the area, evacuating all people from the vicinity of the incident site. No action that poses a personal risk or without adequate training should be taken. Move the containers away from the cendio if it can be done safely. Use sprayed water to cool containers exposed to fire.

Special protective equipment* for firefighting personnel

Firefighters must wear appropriate protective equipment and self-contained breathing equipment with a full face mask operating inpositive performance mode. Firefighters' clothing (including cases, gloves and protective boots) in accordance with the European standard EN 469 provides a basic level of protection in the event of a chemical incident.

SECTION 6. Measures in case of accidental spillage

6.1 Personal precautions, protective equipment and emergency procedures:

For personnel who are not * part of the emergency services

No action that poses a personal risk or without adequate training should be taken. Evacuate the surroundings. Don't let unnecessary and unprotected staff in. Do not touch or walk on the spilled material. Turn off all possible sources of ignition. No flares, no smoke, no flames in the risk area. Avoid breathing steam or mist. Provideadequate ventilation. Wear an appropriate breathing apparatus when the ventilation system is inadequate. Wear personal protective equipment.

For staff emergency

If special garments are needed to manage the discharge, take into account the information contained in Section 8 regarding suitable and unsuitable materials .

6.2 Environmental precautions :

Avoid the dispersion of spilled material, its contact with the soil , waterways, drainage pipes and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. It can be harmful to the environment if released in large quantities.

6.3 Containment and cleaning methods and material:

Small spill

Stop the leak if this does not present any risk. Remove containers from the spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and scrub if it is soluble in water. Alternatively, or if it is insoluble in water, adsorber with an inert dry material and stored in a suitable waste container. Remove waste by means of an authorized disposal manager of this type of waste.

Large spill

* Stop the leak if this does not present any risk. Remove containers from the spill area. Use spark-proof tools and explosion-proof equipment. Approach the spill in the direction of the wind. Prevent it from getting into sewers, water channels, basements or small areas. Wash discharges to an effluent treatment plant or proceed as follows: stop and collect spills

with non-combustible adsorbent materials such as sand, earth, vermiculite or diatomaceous earth, and place the material in a container to dispose of it in accordance with local regulations. Remove waste by means of an authorized manager. Contaminated adsorbent material may present the same risk as the spilled product.

6.4 Referencias to other sections:

Please refer to section 1 for information on the contact telephone number in case of emergency. See section 8 for information on appropriate personal protective equipment. See section 13 for additional information on waste treatment.

SECTION 7. Manupulation and storage

7.1 Precautions for safe handling:

Avoid the production of flammable or explosive concentrations of vapour in the air, and avoid vapour concentrations above occupational exposure limits.

In addition, the product should only be used in places where there are no unprotected lights or other sources of ignition. Electrical equipment must be protected in accordance with the relevant standards.

The mixture can accumulate electrostatic charges: always use grounding conductors during the transfer from one container to another.

Workers must wear anti-static footwear and clothing and floors must be conductive. Keep away from heat, sparks and flames. Do not use tools that produce sparks.

Avoid contact with your eyes and skin. Avoid inhalation of dust, particles, dew or fog from the application of this mixture. Avoid inhaling the dust produced when sanding.

Eating , drinking or smoking should be prohibited in places where this product is handled, stored or treated. Wearing appropriate personal protective equipment (see Section 8)

Do not use pressure to empty it. The container is not a pressure-resistant vessel. Always keep in containers of the same material as the original.

Comply with occupational health and safety laws. Do not allow it to pass into the drain or stream of water.

Information on fire and explosion protection:

Vapors are heavier than air and can diffuse through the ground. Vapors can form explosive mixtures with air.

Where operators are inside the paint booth, whether they are applying or not, and ventilation is not sufficient to continuously monitor the concentration of particulate matter and solvent vapour, they shall wear breathing apparatus with air supply during the painting process, until the concentration of particulate matter and solvent vapour are below the established exposure limits.

7.2 Secure storage conditions, including possible incompatibilities:

Store in accordance with local regulations.

Rules on joint storage:

Stay away from oxidizing agents, strong bases and strong acids. Additional

information on storage conditions:

Apply the precautions indicated on the label. Store in a dry, cool and well-ventilated place. Keep away from heat and direct sunlight. Keep at a distance from all sources of ignition. No smoking in the vicinity. Prevent unauthorized access by people. Containers that have been opened must be closed perfectly with care and always kept in an upright position to avoid spills.

7.3 Specific end uses:

For the relevant uses identified in Section 1, the indications referred to in this Section 7 should be taken into account.

SECTION 8. Exposure/personal protection controls

8.1 Control parameters:

Occupational exposure limits:

Name of the product or ingredient:	Exposure limit values (VLA):
	INSHT (Spain, 1/2019). Absorbed through the skin.
	VLA-EC: 400 mg/m ³ 15 minutes
ISOPROPANOL	VLA-EC: 1000 ppm 15 minutes
	VLA-ED: 200 mg/m ³ 8
	hours VLA-ED: 500 ppm 8
	hours

Best Practices * control

If this product contains ingredients with exposure limits , personal supervision may be necessary , the work or biological environment to determine the effectiveness of ventilation or other control measures and/or the need to wear respiratory protective equipment. Monitoring standards such as the following should be used as a reference: European Standard EN 689 (Atmospheres in the workplace. Guidelines for the assessment of inhalation exposure to chemical agents for comparison with limit values and measurement strategy), European Standard EN 14042 (Atmospheres in the workplace. Guidelines for the application and use of procedures for assessing exposure to chemical and biological agents), European Standard EN 482 (Atmospheres in the workplace. General requirements concerning the operation of procedures for the measurement of chemical agents).

National guidance documents on methods should also be used as a reference. determination of hazardous substances.

8.2 Exposure controls: Technical

controls Appropriate Use only with adequate ventilation. Use insulation from production areas, local ventilation systems, or other engineering procedures to keep the worker's exposure to airborne contaminants below allrecommended or statutory limits. Engineering controls must also keep gas, steam, or dust below the lowest exposure limit. Use anti-explosion ventilation equipment.

Personal protection measures:

Hygienic measures

* Wash your hands, forearms, and face thoroughly after handling chemicals, before eating, smoking, and using the sink, and at the end of the work period. Use appropriate techniques to remove contaminated clothing. Contaminated work clothes may not be removed from the workplace. Wash contaminated clothing before using it again. Seethat eyewash stations and safety showers are located near the workstations.

Eye /face protection

* Eye protective equipment that complies with approved standards should be worn when a risk assessment indicates that it is necessary, in order to avoid any exposure to splashes of the liquid, drizzle, gases or powders. If contact is possible, the following protection should be used, unless the rating indicates a higher degree of protection: protective glasses against chemical splashes.

Skin protection:

Hand protection

* There is no material or combination of glove materials that offers unlimited resistance to any chemical substance or combination of them. The passage time must be longer than the end-use time of the product. Theinstructions and information provided by the manufacturer of the gloves as regards their use, storage, maintenance and replacement should be observed. Gloves should be changed periodically and when any signs of damage to the material of the gloves are observed. Always make sure that gloves are free of defects and that they are stored and used correctly.

The performance or effectiveness of a glove can be reduced by physical/chemical damage and poor maintenance. Barrier creams can help protect exposed areas of the skin; however, they should not be applied once exposure has occurred.

Not recommended, gloves (detection time) < 1 hour: neoprene

Can be used, gloves (detection time) 4 - 8 hours: butyl rubber, PVC

Recommended, gloves (detection time) > 8 hours: Viton®, nitrile rubber, 4H, Teflon, polyvinyl alcohol (PVA)

Hand protection

To correctly select the material of the gloves, emphasizing chemical resistance and penetration time, seek advice from the supplier of chemically resistant gloves.

The user must check that the final option of the type of gloves chosen for the handling of this product is the most appropriate and takes into account the specific conditions of use, as included in the risk assessment of the user.

Body protection

* Before using this product, personal protective equipment for the body must be selected based on the task to be performed and the risks involved and must be approved by a specialist. When there is a risk of ignition as a result of electrostatic charges, wear antistatic protective clothing. To offer maximum protection against electrostatic debris, clothing should include overalls, boots and gloves with anti-static properties. Consult the European standard EN 1149 for additional information on materials and design requirements and test methods.

Other skin protection

Appropriate footwear and any other necessary skin protection measures should be chosen depending on the task being carried out and the risks involved. Such measures must be approved by a specialist before proceeding to the handling of this product.

Respiratoryprotection

* If workers are exposed to concentrations above the exposure limit, they should wear appropriate and certified respirators. Wear a respiratory mask with dust filter and activated carbon when applying this product with a gun. In enclosed spaces use air breathing equipment compressed or fresh. When using roller or brush, usear active carbon filter.

Environmental exposure controls

* Emissions from ventilation equipment or work processes should be checked to verify that they meet the requirements of environmental protection legislation. In some cases to reduce emissions to an acceptable level, it will be necessary to smoke scrubbers, filters or modify the design of the process equipment.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Fitness *

Color (on packaging) * Colorles Smell * s Liquid

Olfactory threshold * Characteristic, alcoholic

pH * Not determined due to the potential for health hazard from inhalation. Not

applicable, as it is not in aqueous medium.

Melting point / point of

freezing

* Not determined

Boiling starting point e

boiling interval

* 83 °C

Flash point * 12 °C

Evaporation rate * No data available
Flammability * Flammable.

Burning time * Not
Combustion rate * applicable
Not
applicable

Lower/upper limit of

flammability or 2 - 12 % (V)

explosiveness

Vapour pressure @ 20° C • * 4.4 kPa Vapour density (Air =1) * 2.1 Relative density * 0.79 g/cm³

Solubility in water @ 25° C • * Soluble in hot and cold water

Distribution coefficient * 0.05

n-octanol/ water

Self-ignition * 399 °C

temperature

Decomposition * Not available

temperature

 Oxidizing properties

* < 50 mPa.s (cP) No risk of explosion Not oxidizing

9.2 Additional Information:

VOC (% by weight) * 98%

SECTION 10. Stability and reactivity

10.1 Reactivity * No test data are available on the reactivity of this product or its constituents. The product is

10.2 Chemical stability * considered chemically stable.

10.5 Materials * Reactive or incompatible with the following materials: oxidizing substances

Incompatible Reactive of incompatible with the following materials, oxidizing substances

10.6 Products of * Under normal conditions of storage and use, dangerous decomposition products should not be formed. dangerous decomposition

SECTION 11. Toxicological information

11.1 Information on toxicological effects

No data are available on the mixture itself. The mixture has been assessed using the conventional method of the Dangerous Preparations Directive 1999/45/EC and has been included in the toxicological risk classification in accordance with the results of this assessment.

Exposure to concentrations of solvent vapours above the established occupational exposure limits may result in irritation of the mucous membranes and respiratory system, and adverse effects on the kidneys, liver and central nervous system. Solvents can cause some of the above effects by absorption through the skin. Signs and symptoms may include headache, dizziness, fatigue, muscle weakness, drowsiness and in extreme cases loss of consciousness. Repeated or prolonged contact with the mixture can cause the removal of natural fats from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Contact withthe fluid with the eyes can cause irritation and reversible injury. If swallowed it can cause nausea, diarrhea, vomiting, gastro-intestinal irritation and chemical pneumonia.

Contains solvent naphtha (petroleum), light aromatic fraction (< 0.1 % benzene). It can cause an allergic reaction.

Acute toxicity estimates:

Route	LD/ LC 50 value (Lethal dose/ Lethal dose = 50 %)
Oral	5840 mg/kg (rat)
Dermal	13900 mg/kg bw (rabbit)
Inhalation (vapors)	$> 25000 \text{ mg/m}^3(\text{rat})$

Irritation/ corrosion:

Not available

<u>Specific organ toxicity (STOT) - single exposure</u>: May cause drowsiness or dizziness.

<u>Specific organ</u> toxicity <u>(STOT) - repeated exposure</u>:

It is not expected to cause organ damage after prolonged or repeated exposure. Based on the test data done for this product.

Aspiration hazard:

It can be harmful in case of ingestion and penetration into the airways . Data based on the physicochemical properties of the material.

SECTION 12. Ecological information

12.1 Toxicity:

Product/ingredient name	Result	Species	Exposition
ISOPROPANOL	LC50 9714 mg/L	Daphnia	24 h
	LC50 9640 mg/L	Pimephales	96 a.m.
	LOEC 1000 mg/L	Alga	4 days

Conclusion/summary This material is harmful to aquatic life with long-lasting effects.

12.2 Persistence and degradability:

Not available. Conclusion/ summary

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ISOPROPANOL	-	-	Easy

12.3 Bioaccumulation potential:

Product/ingredient name	$\log P_{ow}$	FBC	Potential
Octanol-water	log Kow 0.05 : ErC10		low
Water	53	-	low

12.4 Mobility on the ground:

Partition coefficient

Not available.

earth/ water (K_{OC})

Mobility Not available.

12.5 Results of the PBT and vPvB assessment:

PBT Not

vPvBapplicable.

Not applicable.

12.6 Other side effects:

No herself Know effects Significant ó risks Critical.

SECTION 13. Disposal considerations

The information contained in this section contains general tips and indications. The list of Identified Uses in Section 1 should be consulted for any available specific use information mentioned in Exposure Scenario(s).

13.1 Methods for the treatment of waste:

Do not allow it to pass into the drain or a stream of water. The material and/or packaging must be

disposed of as hazardous waste.

European Waste *08 01 11* Paint and varnish residues containing organic solvents or other hazardous substances; if this Catalogue (CER)

product is mixed with other waste, this code may no longer be applicable. If it is mixed with other waste, an

appropriate code must be assigned. For additional information contact your local waste authority.

SECTION 14. Transport information

Transport within the premises of users: it must always be transported in closed containers that are vertical and safe. Ensure that the people transporting the product know what to do in the event of an accident or spill.

Transport in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and current national legislation.

International Transport Regulations:

14.1 UN Number UN1263 Painting 14.2 Official designation of

* United Nations transport.

14.3 Hazard class(s) for transport



Ш 14.4 Packaging group 14.5 Dangers to the environment

environment

Special provisions: 163, 223, 944, 955 Limited 14.6 Precautions

particular for users

quantities: 5 L

Additional information:

ADR/ RID Tunnel restriction codes: (D/E) Hazard

identification number: 30 Special provisions: 640E

ADR/RID: Viscous substance. No restrictions, ref. Chapter 2.2.3.1.5 (applicable to receptacles with

a capacity of less than 450 litres)

Emergency schedule (EmS)

IMDG F-E, S-E

IMDG: Viscous substance. Transport in accordance with paragraphs 2.3.2.5 (applicable to vessels

with a capacity of less than 30 litres)

14.7 Bulk transport with in accordance with Annex II to Marpol 73/78 and the IBC

Code:

Not relevant.

SECTION 15. Regulatory information

15.1 Safety , health and environmental regulations and legislation specific to the substance or mixture EU

Regulation (EC) No 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of high concern

None of the components are listed.

Annex XVII - Restrictions Not applicable. on the manufacture, placing on the market and use of certain

substances, mixtures and articles

Dangerous

Other EU regulations Inventory

of Europe Listed chemicals * Not determined. Not registered.

black

Listed chemicals *

Not

Priority

Prevention Law List

registered.

and integrated control of the

Pollution (IPPC) - Air

Not

Prevention Law List

and integrated control of the

Pollution (IPPC) -

registered.

Water

Chemicals

included in schedule I of the chemical weapons convention

Not registered.

Chemicals

Not registered.

included in schedule II of the chemical weapons convention

Chemicals

included in schedule III of the chemical weapons convention

Not registered.

Not registered.

15.2 Chemical safety assessment

This product contains substances for which chemical safety assessments are still required.

SECTION 16. Other information

Abbreviations and acronyms

ETA = Acute Toxicity Estimation .

CLP = Classification , Labelling and Packaging Regulation (Regulation (EC) No 1272/2008) DNEL

= No derived effect level

EUH Indication = CLP-specific Hazard Indication

PNEC = Expected Concentration No Effect NRN = REACH Registration

Number

Procedure used to deduct classification according to Regulation (EC) No 1272/2008 [CLP/EMS]

Classification	Justification
Flam. Liq. 2	Calculation method
Eye Irrit. 2	Calculation
STOT SE 3	method
	Calculation
	method

This product is mainly used as a cross-linking of coating materials or adhesives. The handling of coating materials or adhesives containing reactive polyisocyanates or residual contents of HDI monomer requires the adoption of appropriate safety measures. They should therefore only be used for industrial or professional purposes. They are not suitable for DIY uses.

R-phrases and H-phrases, in the case referred to in Section 2 or 3:

Full text of classifications, including hazard statements, hazard symbols,

Flam. Liq. 2 H225: Highly flammable liquid and vapours .

Asp. Tox. 2 H305: It can be harmful in case of ingestion and penetration into

the airways. Eye

Irrit. 2 H319:

Causes severe eye

irritation; Serious

eye irritation/injury

STOT SE 3 H336: May cause drowsiness and vertigo.

Disclaimer:

The information provided above is intended to be a guide to facilitate safety in the handling, use, processing, storage, transport, disposal and release of the indicated material. Nothing contained thereinshould be considered as an express or implied guarantee of performance or quality. The information relates only to the specific material mentioned and may not be applicable where such material is used in combination with any other material or as part of it. of any process, unless expressly specified in the text. The information is considered true and correct on the date of its publication. Be sure to always use the most up-to-date information available. The material described herein has been produced for commercial and industrial use only and, unless expressly stated in writing by the manufacturer, has not received any specific regulatory approvals such as approvals for food

contact or for use in medical/surgical applications or devices. It is the sole and exclusive responsibility of the buyer and user to ensure that any handling, use, processing, storage, transport, disposal and release of

End of the safety data sheet.

the material is in accordance with all laws, rules and regulations. Applicable.