WALL HARDENER - TOUPRET

SECTION 1 - IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY *

1-1 Product identifier : **WALL HARDENER**
1-2 relevant identified uses of the mixture : **Penetrating stabilising hardener**
1-3 Details of the supplier of the safety data sheet :
Supplier : **TOUPRET UK LTD**
Address : 25 North Row
London W1K 6DJ - UK

Telephone number : +44 (0) 20 3691 6747
Fax : +44 (0) 20 3691 6751
Email : **fdstoupret@toupret.fr**
1-4 Emergency telephone number : 112

SECTION 2 – HAZARDS IDENTIFICATION *

2-1 Classification of the mixture :
Flam. Liq.2 H225 - Eye Irrit. 2 H319 - STOT SE 3 H336
2-2 Label elements :

DANGER
Contains Isopropanol.
H225 : Highly flammable liquid and vapour.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.
P102 : Keep out of reach of children.
P210 : Keep away from heat / sparks / open flames / hot surfaces. – No smoking.
P233 : Keep container tightly closed.
P280 : Wear protective gloves / protective clothing / eye protection / face protection.
P304 + P340 : IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 : IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 : Dispose of contents / container to hazardous or special waste collection point.

23- Other hazards : The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS *

3-2 Mixtures : Product made of cement, mineral fillers , binders and additives.

substances	CAS number EC number REACH number	concentration	Classification (section 16)
Isopropanol	67-63-0 200-661-7 01-2119457558-25-xxxx	50 < - < 100 %	Flam. Liq.2 H225 - Eye Irrit. 2 H319 - STOT SE 3 H336
Acetate ethyl	141-78-6 205-500-4 01-2119475103-46-xxxx	< 10 %	Flam. Liq.2 H225 - Eye Irrit. 2 H319 - STOT SE 3 H336

SECTION 4 - FIRST AID MEASURES

4-1 Description of first aid measures :
4-1-1 After inhalation : Take the patient out into open air, and make sure he keeps warm and rests. If breathing is irregular or has stopped, carry out artificial respiration. Do

not allow anything to be absorbed by mouth. If the person is unconscious, place in the recovery position and seek medical advice.

4-1-2 After contact with the skin : Take soiled clothes off. Wash the skin with soap and water or use an appropriate cleaning product. DO NOT use solvents or thinners.

4-1-3 After contact with the eyes : Rinse immediately and abundantly with water keeping the eyelids opened for at least 10 minutes. If irritation persists, consult an ophthalmologist.

4-1-4 After ingestion : NEVER give anything to someone unconscious. Rinse mouth, drink water and consult a doctor. Do not make throw up.

4-2 Most important symptoms and effects, both acute and delayed :

4-2-1 After inhalation : Vapours may cause drowsiness and dizziness.

4-2-2 After contact with the skin : Irritating. See SECTION 11 for more details.

4-2-3 After contact with the eyes : Irritating. See SECTION 11 for more details.

4-2-4 After ingestion : Irritating, drowsiness and dizziness. See SECTION 11 for more details.

4-3 Indication of any immediate medical attention and special treatment needed : In case of doubt, irritation persists or if symptoms persist seek medical advice or an ophthalmologist.

SECTION 5 - FIREFIGHTING MEASURES

5-1 Extinguishing media :

- Suitable extinguishing media : water spray, foam, powders, CO2.
- Unsuitable extinguishing media : direct water jet

5-2 Special hazards arising from the mixture : Do not allow fire-fighting effluent to penetrate into sewers or water courses. The vapors are heavier than air and may spread on the ground. A fire will cause a thick black smoke. Exposure to the decomposition products may entail health risks.

5-3 Advice for firefighters : Appropriate protective equipment must be required. Use water to cool sealed containers exposed to fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6-1 Personal precautions, protective equipment and emergency procedures :

6-1-1 For non-emergency personnel : Eliminate sources of ignition and ventilate the rooms. Avoid inhaling smokes.

6-1-2 For emergency responders : Wear protective equipment. Provide adequate ventilation. Keep away unprotected persons. Keep away from heat and ignition sources. Avoid contact with skin and eyes. Do not breathe vapors or spray mist.

6-2 Environmental precautions : Prevent any penetration into sewers or water courses. If the product contaminates water-bearing beds, rivers or sewers, warm the appropriate authorities according to statutory procedures.

6-3 methods and materials for containment and cleaning up :

6-3-1 Appropriate advice to contain a spill : Contain and collect leaks with non-combustible absorbent materials (for example : sand, earth, vermiculite or diatomaceous earth) and place in drums for disposal according to current regulations. (refer to section 13).

6-3-2 Appropriate advice to clean-up a spill : Preferably clean using detergent, do not use solvents.

6-3-3 Any other information : No data is available.

6-4 Reference to other sections : For personal protective equipment, refer to Section 8.
For residues disposal, refer to section 13.

SECTION 7 - HANDLING AND STORAGE

General information : Keep out of the reach of children.

7-1 Precautions for safe handling :

7-1-1 Recommendations shall be specified to

- allow safe handling : Use in well ventilated areas. Avoid contact with eyes, skin and clothing, and do not inhale the vapours or spray gun aerosols. For personal protective equipment, refer to Section 8. Keep the containers firmly closed. Never open the containers using pressure, and always keep the preparation in containers of the same material as the original container. Observe regulations concerning health and safety at work.
- prevent fire and explosions : The vapours are heavier than air. They may spread along the floor and form explosive mixtures with air. Do not allow flammable or explosive concentrations to form in the air and avoid vapour concentrations which exceed the maximum limits for occupational exposure. Use the product in rooms where there are no naked flames or other sources of ignition, and ensure that electrical equipment is protected. The preparation may become electrostatic : you always have to earth during decanting. It is recommended for workers to wear antistatic shoes and clothes and to realize grounds in conductive materials. Keep the containers firmly closed and keep them away from

heat, sparks and naked flames. Do not use tools which can cause sparks.

- Reduce the release to the environment : Prevent any penetration into sewers or water courses.

7-1-2 Advice on general occupational hygiene : Not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing before entering eating areas.

7-2 Conditions for safe storage, including any incompatibilities : Store in accordance with regulations. Observe precautions stated on the label. Store in a dry, well ventilated with a solvent-resistant floor. Keep away from all sources of ignition, heat and direct sunlight.
Keep the product away from oxidizing agents and highly acidic or alkaline materials. Do not smoke. Unauthorized persons must not be allowed access to the rooms. Opened containers must be closed again firmly and stored in a vertical position.

7-3 Specific end use : No data is available.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8-1 Control parameters :

8-1-1 Exposure limits values :

substances	CAS number	ppm	mg/m3	Note
Isopropanol	67-63-0	400	980	Valeur limite indicative France INRS 2007
Acetate ethyl	141-78-6	400	1500	TWA – base TRGS (DE)

8-1-2 biological limits : DNEL

substances	Estimated exposure	Type of exposure	Population	Values
Isopropanol	dermal Inhalation Oral	Long-term systemic effects Long-term systemic effects Long-term systemic effects	Consumer	319 mg/kg 89 mg/m_3 26 mg/kg
Acetate ethyl	dermal Inhalation Oral	Long-term systemic effects Long-term systemic effects Long-term systemic effects	Consumer	37 mg/kg 367 mg/m_3 4,5 mg/kg

8-2 Exposure controls :

8-2-1 Appropriate engineering controls : Make sure there is adequate ventilation, if possible by extraction at the work stations and appropriate general extraction. If this ventilation is insufficient to keep the concentrations of particles and solvent vapours below the maximum exposure limits, wear breathing apparatus.

8-2-2 Individual protection measures, such as personal protective equipment :

General hygiene measures : Not eat, drink and smoke in work areas Wash hands, forearms and face before eating, smoking and using the toilet and after handling.

Eye / face protection : Use eye protection designed to protect against liquid spray : (EN 166). Do not wear lenses.

Hand protection : Use gloves approved to EN 374: nitrile rubber (0.35 mm) or butyl rubber (0.5 mm) or fluorinated rubber (0.4 mm thick). Barrier creams may be used for exposed parts of the skin, however they should not be applied after contact with the product. Impervious protective gloves lined inside with cotton. The "barrier" creams may be used.

Skin protection : Wear protective clothing resistant to solvents. After contact with the product, all soiled parts should be washed..

Respiratory protection : If operators are subjected to concentrations which exceed the maximum exposure limits, they must wear breathing apparatus ‘EN 14387 (anti-gas and steam filter type A).

Thermal hazards : Highly flammable liquid and vapour. Keep away from heat / sparks / open flames / hot surfaces. – No smoking.

8-2-3 Environmental exposure controls : No datum is available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9-1 Information on basic physical and chemical properties :

a)	Appearance :	Liquid - colourless
b)	Odour :	alcohol
c)	Odour threshold :	not determined – not applicable
d)	pH :	not determined – not applicable
e)	Melting point / freezing point :	- 88 °C (**)
f)	Initial boiling point and boiling range :	82 °C (**)
g)	Flash point :	12 °C (**)
h)	Evaporation rate :	not determined
i)	Flammability :	not determined
j)	Upper / lower flammability or explosive limits :	12 % (V) et 2 % (V) (**)
k)	Vapour pressure :	48 hPa à 20 °C (**)
l)	Vapour density :	2 (**)
m)	Relative density :	environ 0.9 à 20 °C
n)	Solubility :	Not solubility in water
o)	Partition coefficient : n-octanol/water :	0.05 (**)
p)	Auto-ignition temperature :	425 °C (**)
q)	Decomposition temperature :	not determined – not applicable
r)	Viscosity :	approximately 2.43 mPa.s at 20 °C (**)
s)	Explosive properties :	not determined
t)	Oxidising properties :	not determined

(**)This information comes from the majority substance : Isopropanol

9-2 Other information :

Quantity of VOC : approximately 70%

SECTION 10 - STABILITY AND REACTIVITY

10-1 Reactivity :	No reactive.
10-2 Chemical stability :	Stable at ambient temperature and in normal use conditions.
10-3 Possibility of hazardous reactions :	Keep away from oxidizing agents and highly acidic or basic materials in order to avoid exothermic reactions.
10-4 Conditions to avoid :	Heat, flames and sparks.
10-5 Incompatible materials :	highly acidic and oxidizing agents.
10-6 Hazardous decomposition products :	None dangerous decomposition products in normal conditions of storage. If the product is exposed to high temperature, it might give off dangerous decomposition products such as carbon oxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

No datum on the preparation itself is available.

11-1 Information on toxicological effects :

11-1-1 Mixture :

a)	Acute toxicity :	Based on available data, the classification criteria are not met.
b)	Skin corrosion / irritation :	May cause skin irritation.
c)	Serious eye damage / irritation :	May cause eyes irritation.
d)	Respiratory or skin sensitisation :	Based on available data, the classification criteria are not met.
e)	Germ cell mutagenicity :	Based on available data, the classification criteria are not met.
f)	Carcinogenicity :	Based on available data, the classification criteria are not met.
g)	Reproductive toxicity :	Based on available data, the classification criteria are not met.
h)	STOT-single exposure :	Vapours may cause drowsiness and dizziness.
i)	STOT-repeated exposure :	Based on available data, the classification criteria are not met.
j)	Aspiration hazard :	Aspiration into the lungs of swallowed or vomited product can cause chemical pneumonitis which can be fatal.

11-1-2 Available information regarding substances in the mixture :

substances	CAS n°	Inhalation	Oral	Dermal
Isopropanol	67-63-0	low toxicity	LD50 > 5000 mg/kg (rat)	LD50 > 5000 mg/kg (rabbit)
Acetate ethyl	141-78-6	LC50 > 22,5 mg/l (rat)	LD50 = 4934 mg/kg (rabbit)	LD50 = 20000 mg/kg (rabbit)

11-1-3 Information on likely routes of exposure :

Exposure can occur through inhalation, ingestion, absorption through the skin and by eye contact and accidental ingestion.

SECTION 12 - ECOLOGICAL INFORMATION

12-1 Toxicity : No datum on the mixture is available.

Datum on the substances :

substances	CAS n°	Fish	Algae	Daphne	Microorganisms
Isopropanol	67-63-0	LC50 > 100 mg/l	LC50 > 100 mg/l	EC50 =13299 mg/l	LC50 > 100 mg/l
Acetate ethyl	141-78-6	LC50 = 230 mg/l	LC50 = 5600 mg/l	EC50 =165 mg/l	

12-2 Persistence and degradability : The substances are readily biodegradable.

12-3 Bioaccumulative potential : The substances are estimated not bioaccumulative.

12-4 Mobility in soil : Isopropanol is movable and dissolves in water.
Acetate Ethyl is insoluble and floats on water.

12-5 Results of PBT and vPvB assessment : The substances are not PBT and vPvB estimated.

12-6 Other adverse effects : No datum on the substance and the mixture are available.
Do not discharge in sewers or water courses to avoid accumulation.

SECTION 13 - DISPOSAL CONSIDERATIONS *

13-1 Waste treatment methods :

Type of waste : hazardous waste : HP3.

Waste code : 08-01-11 : Waste paint and varnish containing organic solvents or other dangerous substances.

Product : Waste from residues or unused products to the extent possible, recycling is preferable to disposal. Storage in an approved landfill. Respect the local current regulations. Do not discharge the product in sewers or waterways. Sewage water must be decanted before being evacuated.

Contaminated Packaging : Treatment by careful draining. Empty and ventilate in a safe place, away from any source of sparks or fire. Respect the local current regulations.

SECTION 14 - TRANSPORT INFORMATION

14-1 UN number : 1263

14-2 UN proper shipping name : Material related to paints

14-3 Transport hazard class :

ADR / RID / ADN : Class : 3 Code ADR : F1

IMDG / OACI / IATA : Class : 3 N° EMS : 3-05

14-4 Packing group : II

14-5 Environmental hazards : No datum is available

14-6 Special precautions for user : No datum is available.

14-7 Transport in bulk according to Annex II of MARPOL and the IBC Code : not applicable

14-8 Exemption according to ADR : The product is packed in containers under the Limited Quantities
LQ : UN 1263

SECTION 15 - REGULATORY INFORMATION

15-1 Safety, health and environmental regulations/legislation specific for the mixture :

- Directive 2004/42/CE : EU limit value for this product (cat. A/h) : 750 g/l (2010).
  This product contains max. 730 g/l VOC.
- Regulation 861/2010 32082010 : varnishes based on acrylic or vinyl polymers dissolved in a non-aqueous medium.

15-2 Chemical safety assessment : No affected by registration under REACH.
No assessment has been carried out for the mixture.

16 - OTHER INFORMATION *

Recommended uses (for more details, please refer to the technical data sheet) :
Users' conditions of work not being known to us, the information given in the present safety data sheet is based on our present knowledge and on both national and EC regulations.
This sheet completes the technical instructions for use, but does not replace them. The information it contains is based on our present knowledge relating to the product concerned, on the date indicated and are given in good faith. Moreover, users' attention is drawn to possible risks incurred when a product is used for other purposes than those for which it is designed.
It does not, in any case, exempt the user from knowing and applying all texts governing his activity. It is his responsibility, and his alone, to take all necessary precautions linked to the use he makes of the product.
The information given in the present sheet should be considered to be a description of the safety requirements relating to our products and not as a range of the properties of this.
The user is not in any way dispensed from finding out and implementing all the texts governing its activity. The user will be solely responsible for taking all the necessary precautions associated with the use he makes of the product.
The information given in this leaflet must be considered as a description of the safety requirements relating to our product, and not as a range of the product's properties.

Key literature references :

- Regulatory 1907/2006/CE : according to REACH
- Regulatory 1272/2008/CE : according to CLP
- Directive 2004/42/CE : according to Volatile Organic Compounds
- Regulation 1357 /2014/CE according to classification of waste.
- Regulation 861/2010 : according to customs nomenclature

The listed phrases refer to section 2 and 3 :

Flam. Liq.2 : flammable liquids – Category 2. - H 225 : Highly flammable liquid and vapour.
Eye Irrit. 2 : eye irritation – Category 2. - H 319 : Causes serious eye irritation.
STOT SE 3 : specific target organ toxicity - single exposure [Narcosis] – Category 3 - H 336 : May cause drowsiness or dizziness.

(*) Alterations with regard to the previous version