

MATERIAL SAFETY DATA SHEET

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

- 1.1. Product name. **730070 WATER BASED SEALER TOPCOAT HARDENER**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against.
Intended use. Not available

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3
Acute toxicity, category 4
Serious eye damage, category 1 X
Skin irritation, category 2
Specific target organ toxicity - single exposure, category 3
Respiratory sensitization, category 1

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H318 Causes serious eye damage
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Skin sensitization, category 1

Hazardous to the aquatic environment, chronic toxicity, category 3

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H226

Flammable liquid and vapour.

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SECTION 2. Hazards identification.

H332	Harmful if inhaled.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
EUH204	Contains isocyanates. May produce an allergic reaction.
EUH208	Contains: HEXAMETHYLENE-DI-ISOCYANATE ISOPHORONE DIISOCYANATE
May produce an allergic reaction.	

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P264	Wash thoroughly after handling.
P280	Wear protective gloves / eye protection / face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P304+P340	IF INHALED: remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER / doctor / . . .

Contains: Polyoxyethylene tridecyl ether phosphate
OLIGOMERS OF ISOPHORONE DIISOCYANATE
ALIPHATIC POLYISOCYANATE
N,N-dimethylcyclohexylamine

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

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3.2. Mixtures.

Contains:

Identification.

ALIPHATIC POLYISOCYANATE

CAS.28182-81-2

$x = \text{Conc. \%}$

$40 \leq x < 45$

Classification 1272/2008 (CLP).

Acute Tox. 4 H332, Resp. Sens. 1 H334,
Skin Sens. 1 H317

Reg. no. 01-2119485796-17

OLIGOMERS OF ISOPHORONE DIISOCYANATE

CAS.53880-05-0

$27 \leq x < 31,5$

EC. 500-125-5

INDEX.

Reg. no. 01-2119488734-24

STOT SE 3 H335, Skin Sens. 1 H317

N-BUTYL ACETATE

CAS.123-86-4

$10 \leq x < 14,5$

EC. 204-658-1

INDEX. 607-025-00-1

Reg. no. 01-2119485493-29

Flam. Liq. 3 H226, STOT SE 3 H336,
EUH066

2-METHOXY-1-METHYLETHYL ACETATE

CAS. 108-65-6

$9 \leq x < 13,5$

EC. 203-603-9

INDEX. 607-195-00-7

Reg. no. 01-2119475791-29

Flam. Liq. 3 H226

Polyoxyethylene tridecyl ether phosphate

CAS.9046-01-9

$7 \leq x < 8$

Eye Dam. 1 H318, Skin Irrit. 2 H315,
Aquatic Chronic 2 H411

N,N-dimethylcyclohexylamine

CAS.98-94-2

$1,5 \leq x < 2$

Flam. Liq. 3 H226, Acute Tox. 4 H302,
Acute Tox. 4 H312, Acute Tox. 4 H332,

Skin Corr. 1B H314, Aquatic Chronic 2 H411

EC. 202-715-5

INDEX.

Reg. no. 01-2119533030-60

ISOPHORONE DIISOCYANATE

CAS.4098-71-9

$0,2 \leq x < 0,25$

Acute Tox. 1 H330, Skin Corr. 1C
H314, STOT SE 3 H335, Resp. Sens. 1
H334,
Skin Sens. 1 H317, Aquatic Chronic 2
H411, Note 2

EC. 223-861-6

INDEX. 615-008-00-5

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Reg. no. 01-2119490408-31-0001

HEXAMETHYLENE-DI-ISOCYANATE

CAS.822-06-0

$0,1 \leq x < 0,15$

Acute Tox. 1 H330, Acute Tox. 4 H302,
Skin Corr. 1C H314, STOT SE 3 H335,
Resp. Sens. 1 H334, Skin Sens. 1 H317,
Note 2

EC. 212-485-8

INDEX. 615-011-00-1

Reg. no. 01-2119457571-37

SECTION 4. First aid measures.

4.1. *Description of first aid measures.*

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. *Most important symptoms and effects, both acute and delayed.*

Specific information on symptoms and effects caused by the product are unknown. For symptoms and effects caused by the contained substances, see chap. 11.

4.3. *Indication of any immediate medical attention and special treatment needed.*

Information not available.

SECTION 5. Firefighting measures.

5.1. *Extinguishing media.*

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. *Special hazards arising from the substance or mixture.*

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

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5.3. *Advice for firefighters.*

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. *Personal precautions, protective equipment and emergency procedures.*

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. *Environmental precautions.*

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. *Methods and material for containment and cleaning up.*

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. *Reference to other sections.*

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. *Precautions for safe handling.*

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges.

Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. *Specific end use(s).*

Information not available.

SECTION 8. Exposure controls/personal protection.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties.

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

Appearance

Colour

Odour threshold.

pH.

Melting point / freezing point.

Initial boiling point.

Boiling range.

Flash point.

Evaporation Rate

Flammability of solids and gases

Lower inflammability limit.

Upper inflammability limit.

Lower explosive limit.

Upper explosive limit.

Vapour pressure.

Vapour density

Relative density.

liquid

characteristic

Not available.

Not available.

Not available.

Not available.

Not available.

25°C.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

1,08

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Solubility insoluble in water
Partition coefficient: n-octanol/water
Auto-ignition temperature.
Decomposition temperature.

Not available.
Not available.
Not available.

Viscosity Not available.
Explosive properties
Oxidising properties

Not available.
Not available.

9.2. *Other information.*
VOC (Directive 2010/75/EC) :
VOC (volatile carbon) :

22,60 % - 244,98
13,26 % - 143,72

SECTION 10. Stability and reactivity.

10.1. *Reactivity.*

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

N-BUTYL ACETATE

Decomposes on contact with: water.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

HEXAMETHYLENE-DI-ISOCYANATE

Decomposes at 255°C/491°F. Polymerises at temperatures above 200°C/392°F.

10.2. *Chemical stability.*

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

10.3. *Possibility of hazardous reactions.*

The vapours may also form explosive mixtures with the air. N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

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HEXAMETHYLENE-DI-ISOCYANATE

May form explosive mixtures with: alcohols,bases.May react violently with: alcohols,amines,strong bases,oxidising agents,strong acids,water.

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition. N-BUTYL ACETATE
Avoid exposure to: moisture,sources of heat,naked flames.

HEXAMETHYLENE-DI-ISOCYANATE

Avoid exposure to: high temperatures,moisture.

10.5. Incompatible materials.

N-BUTYL ACETATE

Incompatible with: water,nitrates,strong oxidants,acids,alkalis,zinc.

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances,strong acids,alkaline metals.

HEXAMETHYLENE-DI-ISOCYANATE

Incompatible with: alcohols,carboxylic acids,amines,strong bases.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released. HEXAMETHYLENE-DI-ISOCYANATE

May develop: nitric oxide,hydrogen cyanide.

SECTION 11. Toxicological information.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects.

2-METHOXY-1-METHYLETHYL ACETATE

The main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product.

Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on

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exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

N-BUTYL ACETATE

In humans the substance's vapours cause irritation to the eyes and nose. In the event of repeated exposure, there is skin irritation, dermatosis (with dryness and flaking of the skin) and keratitis.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture:

15,65 mg/l

LC50 (Inhalation - mists / powders) of the mixture:

3,3 mg/l

LD50 (Oral) of the mixture:

>2000 mg/kg

LD50 (Dermal) of the mixture:

>2000 mg/kg

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Oral).

8530 mg/kg Rat

LD50 (Dermal).

> 5000 mg/kg Rat

N-BUTYL ACETATE

LD50 (Oral).

> 6400 mg/kg Rat

LD50 (Dermal).

> 5000 mg/kg Rabbit

LC50 (Inhalation).

21,1 mg/l/4h Rat

HEXAMETHYLENE-DI-ISOCYANATE

LC50 (Inhalation).

0,124 mg/l/4h Rat

SKIN CORROSION / IRRITATION.

Causes skin irritation.

SERIOUS EYE DAMAGE / IRRITATION.

Causes serious eye damage.

RESPIRATORY OR SKIN SENSITISATION.

Sensitising for the skin.

GERM CELL MUTAGENICITY.

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY.

Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY.

Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE.

May cause respiratory irritation.

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STOT - REPEATED EXPOSURE.

Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD.

Does not meet the classification criteria for this hazard class.

SECTION 12. Ecological information.

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity.

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish. 196 mg/l/96h pesci

EC50 - for Crustacea. > 100 mg/l/48h dafnia

12.2. Persistence and degradability.

ALIPHATIC POLYISOCYANATE

Solubility in water. 0,1 - 100 mg/l

Biodegradability: Information not available.

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water. > 10000 mg/l

Rapidly biodegradable.

N-BUTYL ACETATE

Solubility in water. 1000 - 10000 mg/l

ISOPHORONE DIISOCYANATE

NOT rapidly biodegradable.

HEXAMETHYLENE-DI-ISOCYANATE

NOT rapidly biodegradable.

12.3. Bioaccumulative potential.

ALIPHATIC POLYISOCYANATE

Partition coefficient: n-octanol/water. 5,54

BCF. 367,

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2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water. 1,2

SECTION 12. Ecological information.

N-BUTYL ACETATE

Partition coefficient: n-octanol/water. 2,3
BCF. 15,3

ISOPHORONE DIISOCYANATE

Partition coefficient: n-octanol/water. 0,99

HEXAMETHYLENE-DI-ISOCYANATE

Partition coefficient: n-octanol/water. 3,2
BCF. 3,2

12.4. *Mobility in soil.*

ALIPHATIC POLYISOCYANATE

Partition coefficient: soil/water. 7,3

N-BUTYL ACETATE

Partition coefficient: soil/water. < 3

12.5. *Results of PBT and vPvB assessment.*

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. *Other adverse effects.*

Information not available.

SECTION 13. Disposal considerations.

13.1. *Waste treatment methods.*

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

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SECTION 14. Transport information.

14.1. *UN number.*

ADR / RID, IMDG, IATA: 1263

14.2. *UN proper shipping name.*

ADR / RID: PAINT RELATED MATERIAL

IMDG: PAINT RELATED MATERIAL

IATA: PAINT RELATED MATERIAL

14.3. *Transport hazard class(es).*

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3

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: 30 Limited Quantities: 5 L
Special Provision: 640E

IMDG: EMS: F-E, S-E Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 220 L

Pass.: Maximum quantity: 60 L

Special Instructions: A3, A72, A192

Tunnel restriction code: (D/E)

Packaging instructions: 366

Packaging instructions: 355

14.7. *Transport in bulk according to Annex II of Marpol and the IBC Code.*

Information not relevant.

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