

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

1.1. Product identifier

LiSoTop 700 Anti-Graffiti Film Water Based Product.

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

Use of the substance/mixture Anti-Graffiti Protection

1.3. Details of the supplier of the safety data sheet

LiSoChem SRL
Rue de le Mesnil 34
5670 Viroinval Belgium
Telephone: +32 60 490 190

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

· Classification according to Regulation (EC) No

1272/2008 GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05 corrosion

Signal word: Danger

H 318 Causes serious eye damage P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor.

· Information concerning particular hazards for human and environment:

When sprayed the respiratory Wear protective gloves/protective clothing/eye protection/face protection.

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.



SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· Description:

Preparation of:

Paraffin

· **Dangerous components:**

nonionic surfactants (polymers)

1-5%

Eye Dam. 1, H318; Acute Tox. 4, H302

nonionic surfactants

1-5%

Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

· **4.1 Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

By continuous complaints consult a doctor.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:**

Seek medical treatment.

Do not induce vomiting.

Never give anything by mouth to an unconscious person.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

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

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)+ Carbon dioxide (CO₂)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6.1 Personal precautions, protective equipment and emergency procedures

Keep people at a distance and stay on the windward side.

Particular danger of slipping on leaked/spilled product.

Refer to protective measures listed in sections 7 and 8.

· **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

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

Advice on safe handling

Avoid contact with the skin and the eyes.
Ensure adequate ventilation.

Advice on protection against fire and explosion

No special protective measures against fire required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.
Keep away from heat. Min 5°C Max 30°C
Keep from freezing.

Advice on storage compatibility

Incompatible with strong acids and oxidizing agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storage class (D):

7.3. Specific end use(s)

Temporary Anti-Graffiti Film

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Use suitable respiratory protective device only when aerosol or mist is formed.

· Recommended filter device for short term use: A/P2

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Protective gloves

· Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ³ 0.4 mm

· Penetration time of glove material Value for the permeation: Level 6 (480 min)

· As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR

Nitrile rubber, NBR

· **Eye protection:**

Safety glasses

· **Body protection:** Protective work clothing



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

- Form: Fluid
- Colour: Milky
- Odour: Weak, characteristic
- pH-value at 20 °C: ca. 7
- Change in condition
- Melting point/Melting range: ca. 0 °C
- Boiling point/Boiling range: ca. 100 °C
- Flash point: > 100 °C
- Ignition temperature: 300 °C
- Self-igniting: Product is not selfigniting

- Danger of explosion: Product does not present an explosion hazard

- Vapour pressure at 20 °C: ca. 23 hPa
- Density at 20 °C: ca. 0,95 g/cm³
- Solubility in / Miscibility with water: Fully miscible
- Viscosity:
Dynamic: Not determined.
Kinematic: Not determined.

- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity See chapter 10.3 "possibility of hazardous reactions"
- 10.2 Chemical stability The product is stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions
No hazardous reactions when stored and handled according to prescribed instructions.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Reactions with strong oxidising agents.
- 10.6 Hazardous decomposition products: None, if handled according to order.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- **Acute toxicity** Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:
Oral LD-50:+ 4000mg Rat
- **Primary irritant effect:**
- **Skin corrosion/irritation** Due to the product composition slight irritations of the skin cannot be excluded.
- **Serious eye damage/irritation**
Due to the product composition slight irritations of the eyes cannot be excluded.
Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
When sprayed in inadequately ventilated places, the aerosol drops may seriously irritate the respiratory tract!
Therefore it is absolutely necessary to strictly observe the instructions of chapter (para) 8.
The product has not been tested. The information is derived from the properties of the individual components.



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STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

Section 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

LC-50 | > 10 mg/l (Vertebrata)

- 12.2 Persistence and degradability No further relevant information available.
- Method OECD 302 B
- Analysing method DOC decrease
- Degree of elimination: > 70 %
- Classification: Readily eliminable from water
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxicological effects:

· **Behaviour in sewage processing plants:**

EC-50 | > 200 mg/l (activated sludge)

Elimination | > 70 % (OECD 302 B)

- Additional ecological information:
- COD-value: 1710 mg/g
- BOD5-value: 430 mg/g
- AOX-indication: Product does not contain any organic bound Halogens which could lead to AOX-values.
- According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:
The product does not contain heavy metals in waste water relevant concentrations.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Can be landfilled after chemical and physical treatment, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

Waste disposal number of waste from residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14: Transport information

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Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO-TI/IATA-DGR); Inland waterways transport (ADN)



14.1. UN number:

No hazardous material as defined by the transport regulations.

14.2. UN proper shipping name:

No hazardous material as defined by the transport regulations.

14.3. Transport hazard class(es):

No hazardous material as defined by the transport regulations.

14.4. Packing group:

No hazardous material as defined by the transport regulations.

14.5. Environmental hazards

No hazardous material as defined by the transport regulations.

14.6. Special precautions for user

No hazardous material as defined by the transport regulations.

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

No hazardous material as defined by the transport regulations.

Land transport (ADR/RID)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN/ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

Other applicable information

No hazardous material as defined by the transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): 0 %

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.



15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
IBC = Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
VOC = Volatile organic compound
STOT SE = Specific target organ toxicity single exposure
STOT RE = Specific target organ toxicity repeated exposure
PBT = Persistent Bioaccumulative and Toxic
vPvB = Very Persistent and very Bio-accumulative
bw = body weight
LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Relevant R phrases (number and full text)

35 Causes severe burns.
36/38 Irritating to eyes and skin.
41 Risk of serious damage to eyes.
63 Possible risk of harm to the unborn child.

Relevant H and EUH statements (number and full text)

H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H360Df May damage the unborn child. Suspected of damaging fertility.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

