

Material Safety Data Sheet

According to 91/155 EEC

Printing date 29.03.2006

Reviewed on 13.12.2004

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Exakto-Form Insulating Liquid · **Article number:** 520 0021 0
- **Application of the substance / the preparation** Insulating Liquid.
- **Manufacturer/Supplier:**
Bredent
Weißenhorner Straße 2
D-89250 Senden
Tel.: +49 (0) 7309/872-0
Fax: +49 (0) 7309/872-24
- **Further information obtainable from:** R & D
- **Information in case of emergency:** Tel.: +49 (0) 6132-84436 (24 h)

2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 90622-57-4	isoparaffinic hydrocarbon (C9-12 isoalkanes)	Xn; R 65-66	50-100%
EINECS: 292-459-0			
CAS: 61788-45-2	amines, hydrogenated tallow alkyl	Xi, N; R 38-41-50	≤ 1%

3 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information concerning particular hazards for human and environment:** R 52 Harmful to aquatic organisms.

R 65 Harmful: may cause lung damage if swallowed. R 66
Repeated exposure may cause skin dryness or cracking.

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
A person vomiting while laying on their back should be turned onto their side.
Call a doctor immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:** In case of fire, the following can be released:
Nitrogen oxides (NOx)

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- Carbon monoxide (CO)
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Wear protective clothing.
- Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.

Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
None.
Protect from frost.
Protect from heat and direct sunlight.
Protect from humidity and water.

8 Exposure controls/personal protection

- **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.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Use skin protection cream for skin protection.
Immediately remove all soiled and contaminated clothing
Do not eat or drink while working.
- **Respiratory protection:** Not required.

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- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Safety glasses

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**

Form:	Fluid
Colour:	White
Odour:	Mild

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

- **Flash point:** 56°C

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

- **Density at 20°C:** 0.77 g/cm³

- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· Land transport ADR/RID (cross-border)



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 3295
- **Packaging group:** III
- **Hazard label:** 3
- **Description of goods:** 3295 HYDROCARBONS, LIQUID, N.O.S. (Exakto-Form Isolierflüssigkeit)

· Maritime transport IMDG:



- **IMDG Class:** 3
- **UN Number:** 3295
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-D
- **Marine pollutant:** No
- **Proper shipping name:** HYDROCARBONS, LIQUID, N.O.S.

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 3295
- **Label:** 3
- **Packaging group:** III
- **Proper shipping name:** HYDROCARBONS, LIQUID, N.O.S.

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:** Xn Harmful

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- **Hazard-determining components of labelling:** isoparaffinic hydrocarbon (C9-12 isoalkanes)

- **Risk phrases:**
 - 52Harmful to aquatic organisms.
 - 65Harmful: may cause lung damage if swallowed.
 - 66Repeated exposure may cause skin dryness or cracking.

- **Safety phrases:**
 - 2 Keep out of the reach of children.
 - 23Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

16Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
 - 38Irritating to skin.
 - 41Risk of serious damage to eyes.
 - 50Very toxic to aquatic organisms.
 - 65Harmful: may cause lung damage if swallowed.
 - 66Repeated exposure may cause skin dryness or cracking.

- **Department issuing MSDS:** R & D
- **Contact:** R & D

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