



# Ideal Chemical Products Ltd

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## Flameguard Fire Retardant Foam

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product name** : Flameguard Fire Retardant Foam (Hand Held & Gun Applied)  
**Supplier** : See above  
**Emergency phone number** : 07860287152 (after working hours)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Description:** Mixture of substances listed below with non hazardous additions.

Hazardous substances	%	CAS	EINECS	Supply Class
dimethyl ether	2.5-10	115-10-6	204-065-8	F+; R 12
isobutane	2.5-10	75-28-5	200-857-2	F+; R 12
tris(2-chlorisopropyl)-phosphate	10-25	13674-84-5	-	R 52/53
diphenylmethanediisocyanate, isomeres and homologues	25-50	9016-87-9	-	Xn, Xi; R 20-36/37/38-42/43
halogenated polyether polyol	2.5-10	86675-46-9	-	Xn; R 22
propane	≤2.5	74-98-6	200-827-9	F+; R 12

### 3. HAZARDS IDENTIFICATION

#### Information concerning particular hazards for human and environment

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. Warning! Pressurized container.

**R 12** : Extremely flammable.  
**R 20** : Harmful by inhalation.  
**R 36/37/38** : Irritating to eyes, respiratory system and skin.  
**R 42/43** : May cause sensitisation by inhalation and skin contact. Contains isocyanates. See information supplied by the manufacturer

**Pressurized container** : Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Build up of explosive mixtures possible without sufficient ventilation. Keep out of the reach of children

**Classification system** : The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**Additional information** : When transported by motorcar or truck cans have to stand upright in the boot or on the loading space - not in car interior. Only unreacted formulation or fresh foam is harmful. In use, may form flammable/ explosive vapour-air mixture.

### 4. FIRST AID MEASURES

**Inhalation** : Supply fresh air; consult doctor in case of complaints. Take affected persons into fresh air and keep quiet.  
**Eyes** : Rinse opened eye for several minutes under running water. Then consult a doctor.  
**Skin** : Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. Fresh foam remove or scrape carefully.  
**Ingestion** : Do not induce vomiting; call for medical help immediately.

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## 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing agents** : CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
**Unsuitable extinguishing agents** : Water with full jet  
**Special hazards** : Can form explosive gas-air mixtures. Formation of toxic gases is possible during heating or in case of fire. Danger of bursting by heating.  
**Protective equipment** : Wear self-contained respiratory protective device.  
**Additional information** : Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6. ACCIDENTAL RELEASE MEASURES

- Person-related safety precautions** : Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources.  
**Environmental protection measures** : Do not allow product to reach sewage system or any water course.  
**Measures for cleaning/collecting** : Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents. Foamed out fresh material should be wetted or covered with moisture absorbing materials (sand, wood shavings, absorbing chemicals) for curing

## 7. HANDLING AND STORAGE

- Information for safe handling** : Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.  
**Fire and explosion protection** : Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.  
**Storage Requirements** : Store in a cool location. Observe official regulations on storing packagings with pressurized containers.  
**Storage in common storage facility** : Do not store together with alkalis (caustic solutions). Do not store together with oxidizing and acidic materials.  
**Further information** : Protect from heat and direct sunlight.

## 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:	
<b>9016-87-9 diphenylmethanediisocyanate, isomeres and homologues</b>	
WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
<b>115-10-6 dimethyl ether</b>	
WEL	Short-term value: 958 mg/m <sup>3</sup> , 500 ppm Long-term value: 766 mg/m <sup>3</sup> , 400 ppm

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

- Protective and hygienic measures** : Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.  
**Respiratory protection** : Not necessary if room is well-ventilated. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Filter AX  
**Protection of hands** : Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Recommendation: Polychloropren CR (min. 0,5mm) Nitrile rubber NBR (min. 0,5mm)  
**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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  
**Penetration time of glove material** : The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.  
**Eye protection** : Tightly sealed goggles

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	: Aerosol	<b>Melting Point</b>	: NA	°C
<b>Colour</b>	: Beige	<b>Boiling Point</b>	: NA	°C
<b>Odour</b>	: Characteristic	<b>Density @ 20°C</b>	: 1.06	g/cm <sup>3</sup>
<b>Ignition temperature</b>	: 235	<b>Vapour Pressure @ 20°C</b>	: 6	bar
<b>Flash point</b>	: <100			

## 10. STABILITY AND REACTIVITY

<b>Thermal decomposition</b>	: No decomposition if used according to specifications.
<b>Dangerous reactions</b>	: No dangerous reactions known.
<b>Dangerous decomposition products</b>	: Carbon monoxide and carbon dioxide Nitrogen oxides (Nox), Hydrogen cyanide (prussic acid) Hydrogen chloride (HCl)

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity:

· <b>LD/LC50 values relevant for classification:</b>		
<b>9016-87-9 diphenylmethanediisocyanate, isomers and homologues</b>		
Oral	LD50	>5000 mg/kg
Dermal	LD50	>5000 mg/kg
Inhalative	LC50/4 h	0.49 mg/l
<b>13674-84-5 tris(2-chlorisopropyl)-phosphate</b>		
Oral	LD50	3600 mg/kg

### Primary irritant effect:

<b>On the skin</b>	: Irritant to skin and mucous membranes.
<b>On the eye</b>	: Irritating effect.
<b>Sensitization</b>	: Sensitization possible through inhalation. Sensitization possible through skin contact.
<b>Additional toxicological information</b>	: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful Irritant

## 12. ECOLOGICAL INFORMATION

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

## 13. DISPOSAL CONSIDERATIONS

**Product Recommendation** : Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· <b>European waste catalogue</b>	
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
16 05 04	gases in pressure containers (including halons) containing dangerous substances

**Unclean packaging** : Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

<b>ADR/RID class</b>	: 2 5F Gases.
<b>IMDG/ICAO/IATA Class</b>	: 2.1
<b>UN Number</b>	: 1950
<b>Hazard label</b>	: 2.1
<b>Proper shipping name</b>	: AEROSOLS

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## 15. REGULATORY INFORMATION

<b>Hazard-determining components</b>	:	diphenylmethanediisocyanate, isomeres and homologues
<b>Risk phrases</b>	:	12 Extremely flammable. 20 Harmful by inhalation. 36/37/38 Irritating to eyes, respiratory system and skin. 42/43 May cause sensitisation by inhalation and skin contact.
<b>Safety phrases</b>	:	2 Keep out of the reach of children. 23 Do not breathe fumes/aerosol. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 28 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer). 37/39 Wear suitable gloves and eye/face protection. 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 51 Use only in well-ventilated areas. 56 Dispose of this material and its container to hazardous or special waste collection point.
<b>Special labelling</b>	:	Contains isocyanates. See information supplied by the manufacturer. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Buildup of explosive mixtures possible without sufficient ventilation. Keep out of the reach of children

## 16. OTHER 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.

<b>Relevant R-phrases</b>	:	12 Extremely flammable. 20 Harmful by inhalation. 22 Harmful if swallowed. 36/37/38 Irritating to eyes, respiratory system and skin. 42/43 May cause sensitisation by inhalation and skin contact. 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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