

Material Safety Data - ASTRO FR ECONOMY PU FOAM

1 IDENTIFICATION OF THE SUBSTANCE

PRODUCT NAME: **ASTRO FR ECONOMY PU FOAM**

COMPANY IDENTIFICATION.

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2 COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	CONTENTS	HEALTH SYMBOL	RISK PHRASES
Diphenylmethanediisocyanate, isomers and homologues	9016-87-9	25-50%	Xn	R20-36 / 37 / 38-42 / 43
1,1,1,2-Tetrafluoroethane	811-97-2	2.5-10%		
Propellant: dimethylether	115-10-6	2.5-10%	F+	R12
Diphenyl ether, pentabromo	32534-81-9	<2.5%	Xn, N	R48/21/22-50/53-64
Propellant: butane	106-97-8	<10%	F+	R12

3 HAZARDS IDENTIFICATION

Hazard description:

Xn - Harmful, F+ - Extremely flammable

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitisation by inhalation and skin contact

R52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment

R64 May cause harm to breastfeed babies

Contains isocyanates

Pressurised 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.

Keep out of the reach of children.

4 FIRST AID MEASURES

Skin contact: Remove mechanically if cured. If liquid wipe off excess then wash thoroughly with soap and water.

Eye contact: Carefully wipe away the excess. Wash with water and seek **urgent** medical attention.

Inhalation: Remove to fresh air and if necessary seek medical advice. Symptoms can occur several hours after exposure, therefore medical observation for at least 48 hours after the accident.

Ingestion: Do not induce vomiting. For uncured foam remove excess to permit breathing then seek **urgent** medical assistance. For cured foam seek medical advice if discomfort occurs

5 FIRE FIGHTING MEASURES

Extinguishing Media: CO2 spray, sand and extinguishing powder. **Do not use water.**

Additional Information: Burning produces dense acrid fumes and smoke, which are hazardous to health. Inhalation should be avoided. Fire fighters should wear self contained breathing apparatus in addition to protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Allow the product to cure then remove mechanically into a suitable container pending disposal. Do not flush or allow the uncured product to get into sewers / surface or ground water.

7 HANDLING AND STORAGE

Do not expose the aerosol canister to temperatures above 50°C. Protect from direct sunlight and away from sources of ignition - do not smoke.

Store canisters vertically upright in a well-ventilated area. Keep out of reach of children.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Wear impervious protective clothing. Use eye and hand protection. Do not inhale fumes. Use respiratory protection in badly ventilated areas.

During installation do not eat, smoke or drink. Do not touch face or eyes with contaminated fingers. Wash hands immediately after use.

INGREDIENT NAME	CAS No	STD
Diphenylmethanediisocyanate, isomers and homologues as NCO	9016-87-9	MEL = STEL 0.07 mg/m ³ LTEL 0.02 mg/m ³
1,1,1,2-Tetrafluoroethane	811-97-2	OES = LTV 4240mg/ m ³ ,1000ppm
Propellant: dimethylether	115-10-6	OES = STV 958 (500ppm) LTV 766 (400ppm)

9 PHYSICAL AND CHEMICAL PROPERTIES

Form: Rapidly hardening foam dispensed from an aerosol canister

Colour: Pale green

Odour: Slight amine like

Flash Point propellant: < 0°C

Danger of explosion: Heating may cause an explosion

Density at 20°C (active material pre- foamed): 1.14g/cm³

Solubility in Water: Insoluble

10 STABILITY AND REACTIVITY

Stable and unreactive during normal handling and use. The canister is pressurised. Do not expose to impact damage. Do not expose the canister to temperatures in excess of 50°C.

11 TOXICOLOGICAL INFORMATION

Acute toxicity;

Primary Irritant effect:

Skin: Irritant to skin and mucous membranes

Eye: Irritating effect

Sensitization:

Sensitization possible through inhalation and skin contact.

The product is classified as Harmful and an Irritant.

12 ECOLOGICAL INFORMATION

Harmful to fish and other aquatic organisms.

Water hazard class 2 (German Regulation) (Self-assessment)

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

Danger to drinking water if even small quantities leak to the ground.

13 DISPOSAL CONSIDERATIONS

Empty can completely. Do not puncture. The can must not be punctured or burned even after use. Keep out of reach of children even when empty. Cured foam may be disposed of as normal waste.

14 TRANSPORT INFORMATION

Hazchem 2X UN No. 1950. IMCO Class: 9

Land Transport: ADR/RID class 2 Gases. Item 5F Gases. Hazard label 2.1 Description of Goods - 1950 Aerosols in limited quantities.

Marine Transport: IMDG Class 2.1 UN no. 1950. Label 2.1. EMS Number 2-13. Not classified as marine pollutant. Shipping name: Aerosols

Air Transport: ICAO/IATA Class 2.1. UN No. 1950. Proper shipping name: Aerosols, flammable

15 REGULATORY INFORMATION

Danger Symbols:	Xn	F+
Danger designations:	Harmful	Extremely flammable
Constituents:	Diphenylmethane-4,4'diisocyanate, isomers and homologues	
R- Phrases:	R20: Inhalation can be harmful R36/37/38: Irritable to eyes, respiratory system and skin R42/43 May cause sensitisation by inhalation and skin contact R52/53: Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment. R64: May cause harm to breastfed babies	
S - Phrases:	S23: Do not breathe gas/fumes/vapour/spray. S24/25: Avoid contact with skin and eyes S36/37: Wear suitable protective clothing and gloves. S33: take precautionary measures against static discharges S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S51: Use only in well ventilated areas	
	Contains isocyanates	
	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or puncture even after use.	
	Do not spray onto a naked flame or any incandescent material. Keep away from sources of ignition - NO SMOKING	
	Keep out of reach of children	

16 OTHER INFORMATION

The above information offered in good faith is based on our current knowledge and current legislation and as such the company reserves the right to periodically review and update the information presented. It is intended to describe the product from a user safety viewpoint. The information should not be construed as guaranteeing specific performance properties. Users should make their own assessment from the information supplied and advise site personnel accordingly.

All technical chemical products can affect persons, especially those of a sensitive or allergic disposition. The wearing of appropriate personal protective clothing and safety equipment is recommended as a precaution. Persons with known sensitivity should avoid contact altogether. Always ensure that the application is appropriate for the product and that installation is carried out strictly in accordance with the directions for use.

Users are advised to conduct their own tests in order to determine the suitability of the product for the intended purpose.

Further advice on the recommended applications and limitations of this product may be obtained by contacting the Sales Office.

EMERGENCY CONTACT TEL: +1329 844500

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