

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2015/830)

EXY 34 HFO

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

1.1. Product identifier

Product name EXY 34 HFO
Product code None.

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

Use of the Substance/Mixture Industrial uses
A component of a polyurethane system.

1.3. Details of the supplier of the safety data sheet

Company/undertaking Identification HONTER COMPANY s.r.o.
Na Strži 1702/65, Nusle
140 00, Prague 4
Czech Republic
Tel.: +420 773 581 581
E-mail: info@honter.eu
www.honter.eu

1.4. Emergency telephone number +420 773 581 581

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Version REACH GHS/CLP

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Hazardous to the aquatic environment, chronic, Cat. 3, H412

Additional information For the full text of the phrases mentioned in this Section, see Section 16.

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2.2. Label elements

Signal Word	None.
Hazard Statements	H412: Harmful to aquatic life with long lasting effects.
Precautionary statements	P273: Avoid release to the environment. P501: Dispose of contents/ container to an approved waste disposal plant.
Supplemental information	EUH208: Contains Dibutylbis(dodecylthio)tin. May produce an allergic reaction.
Product identifier	None.
2.3. Other hazards	None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture.

Components		CLP Classification	Product identifier
Triethylphosphat	5% - 10%	, Acute Tox. 4 H302, Eye Irrit. 2 H319	CAS-No.: 78-40-0 Index-No: 201-114-5 REACH No.: 01-2119492852-28
Tris(2-chlor-1-methylethyl)phosphat	1% - 5%	Acute Tox. 4 H302	CAS-No.: 13674-84-5 EC-No.: 237-158-7 REACH No.: 01-2119486772-26-0000
Halogeniertes Polyetherpolyol	1% - 5%	Acute Tox. 4 H302	CAS-No.: 68441-62-3
Polycat 203	< 1%	, Skin Irrit. 2 H315, Eye Dam. 1 H318, STOT RE 2 H373, Acute Tox. 4 H302	CAS-No.: 80-70-6
Dibutylbis(dodecylthio)stannan	< 1%	Acute Tox. 4 H312, Skin Irrit. 2 H315, Skin Sens. 1 H317, Muta. 2 H341, Repr. 1B H360, STOT RE 2 H373o, Aquatic Chronic 1 H410	CAS-No.: 1185-81-5 Index-No: 214-688-7
N,N-Dimethylcyclohexylamin	< 1%	Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Skin Corr. 1B H314, Aquatic Chronic 2 H411, Flam. Liq. 3 H226	CAS-No.: 98-94-2 EC-No.: 202-715-5 REACH No.: 01-2119533030-60
Diethylmethylbenzendiamin	1% - 5%	Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Irrit. 2 H319, STOT RE 2 H373, Aquatic Acute 1 H400, Aquatic Chronic 1 H410	CAS-No.: 68479-98-1 Index-No: 270-877-4 REACH No.: 01-2119486805-25-xxxx
trans-1-Chloro-3,3,3-trifluoropropene	10% - 25%	Aquatic Chronic 3 H412	CAS-No.: 102687-65-0 Index-No: 700-486-0 REACH No.: 01-2119855084-38

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Consult a physician for severe cases.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Rinse mouth. Consult a physician if necessary.

4.2. Most important symptoms and effects, both acute and delayed None known.

4.3. Indication of any immediate medical attention and special treatment needed None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.

Extinguishing media which must not be used for safety reasons High volume water jet.

5.2. Special hazards arising from the substance or mixture During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

5.3. Advice for firefighters

Special protective equipment for firefighters Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus. Wear protective suit.

Specific methods No special measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/dust.
Advice for emergency responders	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ventilate the area.

6.2. Environmental precautions Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal.

6.4. Reference to other sections See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Wear personal protective equipment. Do not breathe vapours/dust. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities The product is hygroscopic. Store in a place accessible by authorized persons only. Keep container tightly closed. Store in original container.

7.3. Specific end use(s) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) No data is available on the product itself.

N,N-Dimethylcyclohexylamin (CAS 98-94-2)

Czech Republic - Occupational Exposure Limits - TWAs 5 mg/m³ TWA

Czech Republic - Occupational Exposure Limits - Ceilings 10 mg/m³ Ceiling

8.2. Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

<i>Respiratory protection</i>	In case of insufficient ventilation wear suitable respiratory equipment.
<i>Hand protection</i>	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
<i>Eye protection</i>	Avoid contact with eyes.
<i>Skin and body protection</i>	No special measures required.
<i>Thermal hazards</i>	No special measures required.

Environmental exposure controls Prevent product from entering surface water or sewage.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Liquid.
Colour	colorless to yellowish
Odour	Characteristic.
Odour Threshold	not determined
pH:	not applicable
Melting point/range:	< 0 °C
Boiling point/range:	not determined
Flash point:	> 65 °C
Evaporation Rate:	not determined
Flammability:	not applicable
Explosion limits:	not determined
Vapour pressure:	not determined
Vapor density:	not determined
Relative density:	see product data sheet
Water solubility:	partly soluble
Partition coefficient (n-octanol/water):	not determined
Autoignition temperature:	not determined
Decomposition temperature:	not determined
Viscosity:	see product data sheet
Explosive properties:	not determined
Oxidising properties:	None

9.2. Other information

General Product Characteristics No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity Reacts with isocyanate.

10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	No if used as directed.
10.4. Conditions to avoid	Not required.
10.5. Incompatible materials	ferrous metals, alloys and galvanized surfaces
10.6. Hazardous decomposition products	None under normal use. In the event of fire the following can be released: COx, NOx, SiOx, POx, HX.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	<p>Triethylphosphat (CAS 78-40-0) Dermal LD50 Rabbit > 20 g/kg (HSDB) Inhalation LC50 Rat > 8187 mg/m³ 4 h(HSDB) Oral LD50 Rat 1100 - 1600 mg/kg (NZ_CCID)</p> <p>Tris(2-chlor-1-methylethyl)phosphat (CAS 13674-84-5) Dermal LD50 Rabbit > 5000 mg/kg (EU_RAR) Inhalation LC50 Rat > 5.05 mg/L 4 h(EU_RAR) Oral LD50 Rat = 1500 mg/kg (NLM_CIP)</p> <p>N,N-Dimethylcyclohexylamin (CAS 98-94-2) Inhalation LC50 Rat = 1889 mg/m³ 2 h(NLM_CIP) Oral LD50 Rat = 272 mg/kg (NLM_CIP)</p> <p>Diethylmethylbenzendiamin (CAS 68479-98-1) Dermal LD50 Rabbit = 700 mg/kg (NZ_CCID) Oral LD50 Rat = 485 mg/kg (NZ_CCID)</p>
Skin corrosion/irritation	None.
Serious eye damage/eye irritation	None.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.
Human experience	No data available.

SECTION 12: Ecological information

12.1. Toxicity	Harmful to aquatic life with long lasting effects.
Tris(2-chlor-1-methylethyl)phosphat (CAS 13674-84-5)	
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Brachydanio rerio 56.2 mg/L [static] LC50 96 h Pimephales promelas 98 mg/L [static] LC50 96 h Poecilia reticulata 30 mg/L [static]
Ecotoxicity - Water Flea - Acute Toxicity Data	EC50 48 h Daphnia magna 63 mg/L (IUCLID)
Ecotoxicity - Freshwater Algae - Acute Toxicity Data	EC50 72 h Desmodesmus subspicatus 45 mg/L (IUCLID) EC50 96 h Pseudokirchneriella subcapitata 4 mg/L (IUCLID)
DMCHA/Polycat 8 (CAS 98-94-2)	
No data is available on the product itself. May change pH of waters.	
12.2. Persistence and degradability	Not readily biodegradable.
12.3. Bioaccumulative potential	The product may be accumulated in organisms.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No information available.
12.6. Other adverse effects	No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

ADR/RID	Not regulated.
IMDG	Not regulated.
IATA	Not regulated.
Further Information	None.

SECTION 15: Regulatory information

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

Regulatory Information Water contaminating class (WGK Germany) = 1 (slightly water contaminating).
The product contains organic halogens.
Water contaminating class (WGK Germany) = 1.

Triethylphosphat (CAS 78-40-0)

EU - REACH (1907/2006) - List of Registered Substances Present

Tris(2-chlor-1-methylethyl)phosphat (CAS 13674-84-5)

TEDX (The Endocrine Disruption Exchange) - Potential Endocrine Disruptors Present

EU - REACH (1907/2006) - List of Registered Substances Present

Halogeniertes Polyetherpolyol (CAS 68441-62-3)

EU - REACH (1907/2006) - List of Registered Substances Present

Polycat 203 (CAS 80-70-6)

EU - REACH (1907/2006) - List of Registered Substances Present

Dibutylbis(dodecylthio)stannan (CAS 1185-81-5)

EU - REACH (1907/2006) - List of Registered Substances Present

N,N-Dimethylcyclohexylamin (CAS 98-94-2)

EU - REACH (1907/2006) - List of Registered Substances Present

Diethylmethylbenzendiamin (CAS 68479-98-1)

EU - REACH (1907/2006) - List of Registered Substances Present

trans-1-Chloro-3,3,3-trifluoropropene (CAS 102687-65-0)

EU - REACH (1907/2006) - List of Registered Substances Present

15.2. Chemical safety assessment Not required.

SECTION 16: Other information

Revision Note Safety datasheet sections which have been updated: .

Key or legend to abbreviations and acronyms None.

Full text of phrases referred to under sections 2 and 3 H226: Flammable liquid and vapour.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H341: Suspected of causing genetic defects.
H360: May damage fertility or the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure if swallowed.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Disclaimer

This safety datasheet only contains information relating to safety and does not replace any product information or product specification. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.