

SAFETY DATA SHEET

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

EXY 39

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

1.1. Product identifier

Product name EXY 39

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 Strzi 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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SECTION 2: Hazards identification

Classification according to Regulation (EC) No. 1272/2008 Acute toxicity, oral, Cat. 4, H302
Skin corrosion/irritation, Cat. 2, H315
Serious eye damage/eye irritation, Cat. 2, H319

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

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Section 16.

2.2. Label elements



Signal Word

Warning

Hazard Statements

H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary statements

P280c: Wear protective gloves/ eye protection/ face protection.
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental information

None.

Product identifier

Tris(2-chlor-1-methylethyl)phosphat, CAS-No. 13674-84-5, EC-No. 237-158-7, REACH No. 01-2119486772-26-0000
N,N-Bis(2-Dimethylaminoäthyl)Methylamin, CAS-No. 3030-47-5, EC-No. 221-201-1

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture.

Components		CLP Classification	Product identifier
Tris(2-chlor-1-methylethyl)phosphat	10% - 25%	Acute Tox. 4 H302	CAS-No.: 13674-84-5 EC-No.: 237-158-7 REACH No.: 01-2119486772-26-0000
Triethylphosphat	10% - 25%	, Acute Tox. 4 H302, Eye Irrit. 2 H319	CAS-No.: 78-40-0 Index-No: 201-114-5 REACH No.: 01-2119492852-28
N,N-Bis(2-Dimethylaminoäthyl)Methylamin	1% - 5%	Acute Tox. 3 H311, Skin Corr. 1B H314, Acute Tox. 4 H302, Aquatic Chronic 3 H412	CAS-No.: 3030-47-5 EC-No.: 221-201-1 Index-No: 612-109-00-6
Formic acid	< 1%	Skin Corr. 1A H314 [CSk1A: C ≥ 90 % CSk1B: 10 % ≤ C < 90 % CSk2: 2 % ≤ C < 10 % CEy2: 2 % ≤ C < 10 %]	CAS-No.: 64-18-6 EC-No.: 200-579-1 Index-No: 607-001-00-0

1,1,1,2,3,3,3-Heptafluorpropan	< 1%	H280	CAS-No.: 431-89-0 Index-No: 207-079-2 REACH No.: 01-2119485489-18
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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	Consult a physician for severe cases. Move to fresh air in case of accidental inhalation of vapours or decomposition products.
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 immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Consult an ophthalmologist.
Ingestion	Obtain medical attention. Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible.

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 dry chemical, CO₂, water spray or alcohol foam.

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. Complete suit protecting against chemicals.
Specific methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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. Do not breathe vapours/dust. Immediately evacuate personnel to safe areas. Ventilate the area.

6.2. Environmental precautions Do not flush into surface water or sanitary sewer 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. Avoid contact with skin and eyes. Plan first aid action before beginning work with this product. Do not breathe vapours/dust.

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.

Formic acid (CAS 64-18-6)

EU - Occupational Exposure (2006/15/EC) - Second List of Indicative Occupational Exposure Limit Values - TWAs 5 ppm TWA
9 mg/m³ TWA

Ireland - Occupational Exposure 5 ppm TWA

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Limits - TWAs	9 mg/m ³ TWA
Ireland - Occupational Exposure	15 ppm STEL (calculated)
Limits - STELs	27 mg/m ³ STEL (calculated)
United Kingdom - Workplace	15 ppm STEL (calculated)
Exposure Limits (WELs) - STELs	28.8 mg/m ³ STEL (calculated)
United Kingdom - Workplace	5 ppm TWA
Exposure Limits (WELs) - TWAs	9.6 mg/m ³ TWA

8.2. Exposure controls

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

Personal protection equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment. Respirator with combination filter for vapour/particulate (EN 14387).

Hand protection The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. PVC or other plastic material gloves.

Eye protection Safety glasses with side-shields conforming to EN166.

Skin and body protection Long sleeved clothing.

Thermal hazards 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 Burning produces obnoxious and toxic fumes.

10.5. Incompatible materials ferrous metals, alloys and galvanized surfaces

10.6. Hazardous decomposition products In the event of fire the following can be released: CO_x, NO_x, SiO_x.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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)

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)

N,N-Bis(2-Dimethylaminoäthyl)Methylamin (CAS 3030-47-5)
Oral LD50 Rat = 1630 µL/kg (NLM_CIP)

Formic acid (CAS 64-18-6)
Inhalation LC50 Rat = 15 g/m³ 15 min(NTP)
Oral LD50 Rat = 1100 mg/kg (NLM_CIP)

1,1,1,2,3,3,3-Heptafluorpropan (CAS 431-89-0)
Inhalation LC50 Rat = 800000 ppm 4 h(HSDB)

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Severe eye irritation.

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 No data is available on the product itself. May change pH of waters.

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)
Formic acid (CAS 64-18-6)	
Ecotoxicity - Water Flea - Acute Toxicity Data	EC50 48 h Daphnia magna 120 mg/L (IUCLID)
Ecotoxicity - Freshwater Algae - Acute Toxicity Data	EC50 48 h Daphnia magna 138 - 165.6 mg/L [Static] (EPA) EC50 96 h Desmodesmus subspicatus 25 mg/L (IUCLID) EC50 72 h Desmodesmus subspicatus 26.9 mg/L (IUCLID)

12.2. Persistence and degradability Expected to be biodegradable. Neutralization is normally necessary before waste water is discharged into water treatment plants.

12.3. Bioaccumulative potential Bioaccumulation is unlikely.

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. Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

ADR/RID	Not regulated.
IMDG	Not regulated.
IATA	Not regulated.
Further Information	Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Regulatory Information** The product contains organic halogens.**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

Triethylphosphat (CAS 78-40-0)

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

N,N-Bis(2-Dimethylaminoäthyl)Methylamin (CAS 3030-47-5)

EU - Seveso III Directive (2012/18/EU) - Qualifying Quantities of Dangerous Substances - Lower-Tier Requirements 50 tonne

EU - Seveso III Directive (2012/18/EU) - Qualifying Quantities of Dangerous Substances - Higher-Tier Requirements 200 tonne

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

Formic acid (CAS 64-18-6)

EU - Cosmetics (1223/2009) - Annex V - Preservatives - Maximum Authorised Concentration 0.5 % MAC (as acid)

EU - Biocides (1062/2014) - Annex II Part 1 - Supported Substances 037 Product type 2, 3, 4, 5, 6, 11, 12 (200-579-1)

EU - Biocides (2007/565/EC) - Substances and Product-Types Not to Be Included in Annexes I, IA and IB to Directive 98/8/EC Product type: 9

EU - Plant Protection Products (1107/2009/EC) - Active Substances Not Included in the Annex to Regulation 540/2011/EC	Not included in Annex I to Directive 540/2011/EC
EU - REACH (1907/2006) - List of Registered Substances	Present
1,1,1,2,3,3,3-Heptafluoropropan (CAS 431-89-0)	
EU - European Pollutant Release and Transfer Register (E-PRTR) (166/2006) - Threshold Quantities	100 kg/yr TQ (air in total mass with other Hydrogen fluorocarbons: HFC23, HFC32, HFC41, HFC4310mee, HFC125, HFC134, HFC134a, HFC152a, HFC143, HFC143a, HFC236fa, HFC245ca and HFC365mfc)
EU - Fluorinated Gases (517/2014) - Market Restrictions	<p>July 4, 2007: non-refillable containers</p> <p>July 4, 2007: non-confined direct-evaporation systems containing refrigerants</p> <p>July 4, 2007: windows for domestic use</p> <p>July 4, 2008: other windows</p> <p>July 4, 2006: footwear</p> <p>July 4, 2007: tires</p> <p>July 4, 2008: one component foams that contain fluorinated greenhouse gases with GWP of 150 or more (except when required to meet national safety standards)</p> <p>January 1, 2020: stationary refrigeration equipment that contains, or whose functioning relies upon, HFCs with GWP of 2500 or more (except for equipment intended for application designed to cool products to temperatures below 50°C)</p> <p>July 4, 2009: aerosol generators marketed and intended for sale to the general public for entertainment and decorative purposes and signal horns, that contain HFCs with GWP of 150 or more</p> <p>January 1, 2015: domestic refrigerators and freezers that contain HFCs with GWP of 150 or more</p> <p>January 1, 2022: refrigerators and freezers for commercial use (hermetically sealed equipment) that contain HFCs with GWP of 150 or more</p> <p>January 1, 2020: refrigerators and freezers for commercial use (hermetically sealed equipment) that contain HFCs with GWP of 2500 or more</p> <p>January 1, 2022: multipack centralised refrigeration systems for commercial use with a rated capacity of 40 kW or more (except in the primary refrigerant circuit of cascade systems where fluorinated greenhouse gases with a GWP of less than 1500 may be used) January 1, 2022: movable room air-conditioning equipment (hermetically sealed equipment which is movable between rooms by the end user) that contain HFCs with GWP of 150 or more January 1, 2025: single split air-conditioning systems containing less than 3 kg of fluorinated greenhouse gases, that contain, or whose functioning relies upon, fluorinated greenhouse gases with GWP of 750 or more</p> <p>January 1, 2020: extruded Polystyrene that contain HFCs with GWP of 150 or more (except when required to meet national safety standards)</p> <p>January 1, 2023: other foams that contain HFCs with GWP of 150 or more (except when required to meet national safety standards) January 1, 2018: technical aerosols that contain HFCs with GWP of 150 or more (except when required to meet national safety standards or when used for medical applications) (listed under Hydrofluorocarbons)</p> <p>Present</p>

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

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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**

H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H412: Harmful to aquatic life with long lasting effects.

Further information

Take notice of the directions of use on the label.

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.