

MATERIAL SAFETY DATA SHEET

This Safety Material Data Sheet is prepared on the base of Regulation 1907/2006/EC of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/WE and repealing Council Regulation 793/93/EEC and Commission Report 1488/94/EC and Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC i 200/21/EC.

1 IDENTIFICATION OF PREPARATION IDENTIFICATION OF MANUFACTURER AND DISTRIBUTOR

Identification of Preparation: INTER TROTON ACRYL CLEAR COAT SPRAY

Application:

Professional repairs of car body repairs.

Manufacturer/Distributor:

TROTON Sp. z o. o.

78-120 Gościno

Ząbrowo 14A, Poland

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Date of preparation: August 1th, 2006

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2 IDENTIFICATION OF THREATS

2.1 Classification and marking of preparation

Product extremely flammable(R12).

Irritating product (Xi). Irritating to eyes(R36).

Repeated exposure may cause skin dryness or cracking.(R66).

Vapours may cause drowsiness and dizziness (R67).

2.2 Fire hazard

Aerosols under pressure,extremely flammable.Components with air forming explosive mixtures.

In case of activity of higher temperature container may undergo unsealing with emission of gases and aerosols.

3 CHEMICAL COMPOSITION AND INFORMATION CONCERNING INGREDIENTS

3.1 Dangerous ingredients of the mixture and their classification

<u>Compound:</u>	<u>EEC No.</u>	<u>CAS No.</u>	<u>WE No.</u>	<u>% by weight</u>	<u>Symbol</u>	<u>R Phrases</u>
Propane/butane /isobutene mixture	601-004-00-0	106-97-8	203-448-7	30.0-35.0	F+; R12	NOTA C F+ R12 S (2-)9-16
Xylene	601-022-00-9	1330-20-7	215-535-7	4,5-5.0	R10 Xn;	NOTA C Xn

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Toluene	601-021-00-3	105-88-3	203-625-9	4,5-4,8	R20/21 Xi; R38 F; R11 Repro. Kat. 3; R63 Xn; R48/20-65 Xi; R38 R67	R: 10-20/21-38 S :(2-)25 F; Xn R: 11-38-48/20-63-65-67 S: (2-) 36/37-62-46
Monobutyl ether of ethylene glycol acetone	---	111-76-2	---	2,0	Xn	R20/21/22-37
	606-001-00-8	67-64-1	200-662-2	35.0	F; R11 Xi; R36 R66 R67	F; Xi R: 11-36-66-67 S: (2-)9-16-26

4 FIRST AID MEASURES

4.1 Instruction of proceeding, depending on the way of exposure:

4.2 Instruction of proceeding, depending on the way of exposure:

Inhalation:	remove the affected person to fresh air, keep calm, cover with a blanket. If shortness of breath occurs, give oxygen. If breathing has stopped, administer artificial respiration and get medical advice.
Eye contact:	remove contact lenses. Flush immediately with plenty of water during 15 minutes, holding the eyelids wide open. Consult an ophthalmologist.
Skin contact:	immediately flush with plenty of water, take off all contaminated clothing, wash skin with plenty of water and soap. In case of any irritation, consult a doctor.
Ingestion:	If swallowed, do not induce vomiting because of risk of inhalation into lungs. Seek medical advice immediately.
General recommendations:	take normal precautionary measures applied during work with chemicals. In case of any alarming symptoms, seek medical advice.
Notes for doctors:	no special antidote, apply symptomatic treatment.

5 PROCEEDING IN CASE OF FIRE

5.1 Personal protection means:

Working clothes made of dense fabric, gloves made of material resistant for organic solvents, shoes made of material resistant for organic solvents, safety goggles in tight casing, respiratory protection against solvents vapors and dust (brown color, marked with "A" letter with P2 filter, marked with white color.

5.2 Detailed guidelines:

Remove all potential sources of ignition, tighten damaged packing, place the enamel collected from environment in substitute packing. Collected substance should be transferred to destruction.

5.3 Precautions within environment protection range:

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Safeguard sink-holes. In case of contamination of waters, immediately notify the relevant authorities. Contaminated soil should be removed together with greenery, covering the soil treating it as collected enamel. Similarly proceed with used packing.

5.4 Utilization methods:

Burning in specially appointed installations – after emptying of packing, according to requirements, concerning explosives. Do not discharge extinguishing medium to sawage system

6 PROCEEDING IN CASE OF UNINTENTIONAL RELEASE TO ENVIRONMENT

6.1 Protection of humans

Working clothes made of dense fabric, gloves made of material resistant for organic solvents, shoes made of material resistant for organic solvents, safety goggles in tight casing, respiratory protection against solvents vapors and dust (brown color, marked with "A" letter with P2 filter, marked with white color.

6.2 Detailed guidelines concerning storage conditions:

All storage rooms should be well ventilated because of creation of explosive mixtures with air. Electric installation should fulfill explosion-proof requirements.

6.3 Protection of environment

Prevent penetration into sewage system, soil, underground and surface water. In case the product penetrates into sewage system or water, notify applicable authorities immediately.

6.4 Methods of neutralisation, collection and environment cleaning

Absorb spilled product with chemically neutral absorbing material (sand, diatomaceous earth), transfer to tight containers and deliver to authorised disposal agent.

7 HANDLING PREPARATION AND STORE CONDITIONS

7.1 Poisoning prevention:

During all works, connected with enamel, one should not eat, drink, take any drugs, avoid direct contacts, avoid breathing of dusts and aerosols, and observe the principles of personal hygiene.

7.2 Detailed guidelines concerning storage conditions:

All storage rooms should be well ventilated because of creation of explosive mixtures with air. Electric installation should fulfill explosion-proof requirements.

7.3 Storage:

Preparation must be stored in properly marked factory packs, provided with information in Polish, according to operative standards and regulations. Storage rooms should be adopted to storage of flammable and harmful substances. All sources of ignition including electrostatic voltage should be eliminated. The storage temperature must not exceed 20°C. Protect against direct sunlight and sources of temperature, exceeding 50°C. Store in separation with oxidizing and deoxidizing materials.

7.4 Methods of proceeding with waste:

The lacquer in aerosol is considered as waste if it can not be used in any form. The waste enamel should be transferred to the area indicated by environmental protection authority in purpose of emptying the packing and subsequent liquidation by burning.

8 EXPOSURE CONTROL AND MEASURES OF INDIVIDUAL PROTECTION

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8.1 Technological means of exposure limitation

General means – indispensable for proper transport, storage and using the acrylic enamel in aerosol.

8.2 Values of NDS¹, NDSCh², NDSP³

<u>Component</u>	<u>CAS No.</u>	<u>Standard</u>	<u>Value</u>	<u>Unit</u>
Propane	74-98-6	NDS	1800	mg/m ³
		NDSCh	---	mg/m ³
Butane	106-97-8	NDS	1900	mg/m ³
		NDSCh	3000	mg/m ³
Izobutane	---	NDS	---	mg/m ³
		NDSCh	---	mg/m ³
Xylene	1330-20-7	NDS	100	mg/m ³
		NDSCh	---	mg/m ³
Monobutyl ether of ethylene glycol	111-76-2	NDS	---	mg/m ³
		NDSCh	---	mg/m ³
acetone	67-64-1	NDS	600	mg/m ³
		NDSCh	1800	mg/m ³
Toluene	108-88-3	NDS	100	mg/m ³
		NDSCh	200	mg/m ³

Legal basis:

Order of Minister of Labor and Social Policy of November 29th, 2002 on behalf of concentrations and intensity of harmful factors in working environment (Law Gazette, No. 217, item 1833, 2002 with later amendments). **8.3**

8.2 Personal Protection Measures

Hands:

Gloves made of material resistant for organic solvents;

Eyes:

Safety goggles in tight casing (casing made of plastic resistant for organic solvents);

Respiratory system:

Respiratory system protection in case of work in the atmosphere with enamel (including particle filter, marked with white color and "P 2" symbol and organic vapors filter, marked with brown color and marked by letter "A");

Skin and body:

Protective clothes made of dense fabric and protective apron.

Collective protection:

Ventilation in working posts in closed areas;

Other information:

Industrial hygiene: General regulations concerning industrial hygiene are valid. One ought to avoid the direct contact of body and respiratory tract with the enamel. Contaminated clothes should be replaced. After completion of work one ought to wash scrupulously the skin. During work do not drink, eat and do not take drugs. Remove the enamel which was released to environment.

¹ NDS –The Maximum Permissible Concentration

² NDSCh -The Maximum Permissible Momentary Concentration – the average value of concentration which should not result the negative changes of worker's health, if exists in work environment not longer than 15 minutes and not more frequently than two times per working shift in time interval not shorter than one hour.

³ NDSP -- The Maximum Permissible Threshold Value of concentration, which, due to threat for worker's health or life can not be exceeded in working environment in any moment.

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Threats prevention: Where there occurs the possibility of dangerous concentrations of vapors and aerosols, one ought to establish the water sprinklers. Sewage, considered as toxic ones should be collected and properly processed.

One ought to wear protective clothes, shoes, protective coat and gloves.

9 PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical form, color, smell and taste:

In normal conditions preparation has form of liquid with biting smell of aliphatic hydrocarbons mixture and with scorching taste. The color depends on enamel batch.

9.2 Volume of container:

520 cm³

9.3 Volume of enamel inside container:

400 cm³

9.4 Pressure in temperature of 20°C

4.5 bar

9.5 Deformation pressure:

15 bar

9.6 Explosion pressure:

420 bar

9.7 Range of creation of explosive mixture with air:

2.5 – 7% by volume

9.8 Temperature of ignition (liquid):

4°C

9.9 Temperature of ignition (carrier):

-80°C

9.10 Density g/cm³ (liquid):

0.950 +/-0,01

9.11 Density g/cm³ (mixture):

+/- 0.830

9.12 Solubility in water:

droppable

10 STABILITY AND REACTIVITY

10.1 Stability and reactivity:

In normal conditions the product is stable in duration of 24 months.

10.2 Materials causing the hazard:

Avoid contact with aggressive oxidizers (e.g. hydro peroxide, perchlorates, peracetates and permanganates).

10.3 Corrosive properties:

Weak, especially in presence of moisture.

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11. TOXICOLOGICAL INFORMATION

11.1 Tracts of exposure:

- breathing;
- engorgement;
- contact with skin;
- contact with eyes.

11.2 Local effects:

Breathing – There appears the shortening of breathe accompanied by cough. Vapors of organic solvents are quickly absorbed by lungs, causing the same symptoms as after engorgement.

Engorgement – There appear symptoms of acute irritation of mucous membranes of digestive tract, nausea, vomiting and diarrhea. Absorption in organism results in headache, feeling of fatigue, sleepiness, cardiac arrhythmia, disturbances in central nervous system, hepatic and nephrogenic failures.

Contact with skin – Irritation, redness and skin drying-up may appear.

Contact with eyes – Irritation, burning, redness and epiphora may appear.

11.3 Health results in case of acute exposure:

After-effects of acute intoxication by organic solvents being present in paint: irritation of mucous membranes of eyes and respiratory tract, feeling of fatigue, vertigo, headache, disorders of bodily equilibrium, nausea, vomiting and insomnia.

11.4 Health results of chronic exposure:

Persons, who are chronically exposed to risk of breathing the air contaminated by vapors originated from this preparation, may complain for irritation of mucous membrane, headaches and vertigousness , excitement or drowsiness, problems with alimentary system and skin exsiccation.

12. ENVIRONMENTAL INFORMATION

No data available concerning mobility in environment, biodegradation and bioaccumulation of product.

12.1 Ecotoxicological data concerning ingredients of product:

Acetone LD50 (rat intramuscular) – 5800 mg/kg	Monobutyl ether of ethylene glycol LD50 (rat intramuscular) – 2125mg/kg
Butane LC50 (rat inhalation) – 658 g/m ³ /4h	Xylene LD50 (rat orally) – 4300 mg/kg
Izobutane LC50 (rat inhalation) – 57 ppm/15 min.	Toluene LD50 (rat intramuscular) – 5000 mg/kg

Detailed marking:

Pressurised container. Do not expose to temperatures in excess of 50°C. Protect from direct sunlight. Do not pierce or burn even after use. Do not use near flames or incandescent materials. Do not smoke during spraying. Keep away from children.

Contains: Propane/butane/isobutene mixture Acetone, Butane , Monobutyl ether of ethylene glycol , Xylene , Toluene

Legal basis:

Act, dated April 27th, 2001 about wastes (Law Gazette, No. 62, item 628, 2001);

Order of Minister of Environment, dated September 27th, 2001, on behalf of catalog of wastes (Law Gazette No. 112, item 1206, dated October 8th, 2001);

Act, dated May 11th, 2001 on behalf of packing and pack wastes (Law Gazette No. 63, item 638, 2001);

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Act, dated December 19th, 2002 on behalf of changes of act about wastes and changes in other acts (Law Gazette No. 7, item 78, 2003);

Act, dated July 29th, 2005 on behalf of changes of act about wastes and changes in other acts (Law Gazette No. 175, item 1458, 2005)

13 HADLING WITH WASTES

The way of excess amount removal or waste disposal

Do not dispose with communal wastes; do not pour to drainage system. Burn in specially adapted installations or deliver to authorized waste collector.

08 01 Post production, preparation, handling and post use waste, lacquer and paint disposal.

08 01 11* Lacquer and paint waste, containing organic solvents or another dangerous substances – dangerous waste.

The way of used packing disposal

Code of waste:

15 01 10* Packing containing residues of dangerous substances or packing contaminated with dangerous substances.

Used packing should be delivered to authorized collector who has due permission within the range of waste management and especially in dangerous waste management.

Legal basis:

Act, dated April 27th, 2001 about wastes (Law Gazette, No. 62, item 628, 2001);

Order of Minister of Environment, dated September 27th, 2001, on behalf of catalog of wastes (Law Gazette No. 112, item 1206, dated October 8th, 2001);

Act, dated May 11th, 2001 on behalf of packing and pack wastes (Law Gazette No. 63, item 638, 2001);

Act, dated December 19th, 2002 on behalf of changes of act about wastes and changes in other acts (Law Gazette No. 7, item 78, 2003);

Act, dated July 29th, 2005 on behalf of changes of act about wastes and changes in other acts (Law Gazette No. 175, item 1458, 2005)

14 NFORMATION ABOUT TRANSPORT

14.1 Classification and pacing in transport.

Road and railway transport ADR/RID i GGVS/GGVE:	
Class ADR/RID – GGVS/E	2 5F Thickeners, condensed or disengaged under pressure gases.

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Un number	1950
Procut name	1950 aerozole
Sea transport IMDG/GGVSee:	
Class IMDG/GGVSee	2
Numer UN	1950
Label	2.1
Number EMS	F-D, S-U
Sea polutant	No
Technical name	Aerosols
Air transport CIAO-TI i IATA-DGR:	
Klasa CIAO/IATA	2.1
Number UN/ID	1950
label	2.1
Technical name	Aerosols, flammable

15 INFORMATION CONCERNING THE LAW REGULATIONS

15.1 Packages

Packages marking:
Sticker containing:

INTER TROTON ACRYL CLEAR COAT SPRAY

MARKING

Xi



IRRITATING

F+



**EXTREMELY
FLAMMABLE**

Phrases indicating
thread type:

R12	Extremely flammable
R36	Irritating to eyes .
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Phrases indicating conditions
of safe use:

S2	Keep out of the reach of children.
S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition-No smoking.

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S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S51	Use only in well-ventilated areas.

VOC = 640 g/l
2004/42/WE IIB(e) (840)640

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. Keep out of the reach of children.

15.2 Other regulations, if apply:

- Act on behalf of substances and chemical preparations, dated January 11th, 2001 (Law Gazette No. 11, item 84; No. 100, item 1085; No. 123, item 1350; No. 127, item 1367 with amendment, dated July 5th, 2002 (Law Gazette No. 142, item 1187);
- Order of Minister of Health, dated July 3rd, 2002 on behalf of Sheet of characteristic of dangerous substance and dangerous preparation (Law Gazette No. 140, item 1171);
- Order of Minister of Health, dated December 14th, 2004 which changes the order on behalf of Sheet of characteristic of dangerous substance and dangerous preparation (Law Gazette No. 2, item 8);
- Order of Minister of Health, dated September 28th, 2005 on behalf of list of dangerous substances with their classification and marking (Law Gazette No. 201, item 1674);
- Order of Minister of Health, dated September 2nd, 2003 on behalf of markings on packing of dangerous substances and chemical preparations (Law Gazette No. 173, item 1679 with later amendments);
- Order of Minister of Health, dated September 2nd, 2003 on behalf of criteria and methods of classification of substances and chemical preparations (Law Gazette No. 171, item 1666 with later amendments);
- Act, dated April 27th, 2001 about waste (Law Gazette No 62, item 628) and Order of Minister of Environment, dated September 27th, 2001 on behalf of catalog of waste (Law Gazette No. 112, item 1209);
- Act, dated July 29th, 2005 on behalf of changes of Act about wastes and about the changes of some other acts (Law Gazette No. 175, item 1458, 2005);
- Order of Minister of Labor and Social Policy, dated November 29th, 2002 on behalf of maximum permissible concentrations and intensity of harmful factors in work environment (Law Gazette No 217, item 1833, 2002 with later amendments).
- Ordinance of Minister for Labour and Social Policy of 29th November 2002 in the Matter of Admissible Concentrations and Intensity of Factors Harmful for Health in Workplace Environment (Official Journal No 217 Pos. 1833, 2002 with subsequent modifications)
- Ordinance of Minister for Economy of 16th January 2007. In the Matter of Detailed Requirements for Limitation of Emission of Volatile Organic Compounds due to the use of Organic Solvents in Certain Paints and Varnishes and Vehicle Refinishing Products. 72

16 OTHER INFORMATION

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The purpose of information stated in this sheet is to describe the product only from the point of view of work safety requirements. User of this product bears the responsibility for making conditions of safe application of product and he is solely responsible for results of improper use of this product.

R phrases (indicating type of threat) used in Section 2 of Characteristic Sheet):

R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R20/21	Harmful by inhalation and contact with the skin.
R20/21/22	Harmful by inhalation and contact with the skin and if swallowed.
R36	Irritating to eyes.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63	Possible risk of harm to the unborn child.
R65	Harmful :may cause long damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness.