

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

1.1 Identification of the preparation: TORO UNIVERSAL THINNER Code: 3801

1.2 Use of the preparation: Polyurethane/Acryl paint solvent. Only for professional use.

1.3 Company:

UAB "Svydis"

Adr.: Palemono str 171, Kaunas LT-52107, Lithuania

Tel.: +37037341739; Fax: +37037341744; e-mail: info@svydis.lt

1.4 Emergency phone number: +37037341739 (Technical lab)

2. IDENTIFICATION OF HAZARDS

2.1 EC classification: R10 | Xn:R20/21 | Xi:R38

2.2 Adverse effects: Flammable. Harmful by inhalation. Harmful in contact with skin. Irritating to skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical description: Mixture of organic solvents.

3.2 Dangerous ingredients: Substances taking part in a percentage higher than the exemption limit and presenting a health and/or environment hazard, and/or with a Communitarian workplace exposure limit:

< 5 %	2-methoxy-1-methylethyl acetate R10	EC 203-603-9 Index No 607-195- CAS 108-65-6
25 < 50	Xylene (mixture of isomers) R10 Xn:R20/21 Xi:R38	EC 215-535-7 Index No 601-022- CAS 1330-20-7
25 < 50	n-butyl acetate R10 R66-R67	EC 204-658-1 Index No 607-025- CAS 123-86-4
2,5 < 10	Ethylbenzene F:R11 Xn:R20	EC 202-849-4 Index No 601-023- CAS 100-41-4

For more information on dangerous ingredients, see sections 8, 11, 12 and 16.

- Pre-registration REACH: All ingredients of this preparation, are included in the list of pre-registered substances, published by the 'European chemicals agency' (ECHA), in accordance with Article 28 of Regulation (EC) no. 1907/2006.

Additional information:
<http://apps.echa.europa.eu/preregistered/pre-registered-sub.aspx>

4. FIRST AID MEASURES

When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

4.1 By inhalation: Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.

4.2 By contact with the skin: Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.

4.3 By contact with eyes: Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.

4.4 By ingestion: If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

5. FIRE-FIGHTING MEASURES

5.1 Means of Extinction: Extinguishing powder or CO₂. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet.

5.2 Specific risks: As consequence of combustion or thermal decomposition, hazardous decomposition products may be produced, such as: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3 Fire-proof protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots.

5.4 Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

6. ACCIDENTAL SPILLAGE MEASURES

6.1 Personal precautions: Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. For exposure controls and personal protection measures, see section 8.

6.2 Environmental precautions: Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sews, inform the appropriate authorities in accordance with local regulations.

6.3 Cleaning-up methods: Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.

7. HANDLING AND STORAGE

7.1 Handling precautions: Comply with the existing legislation on health and safety at work.

- General recommendations: Avoid any type of leakage or escape. Keep the container tightly closed.

- Recommendations for the prevention of fire and explosion risks: Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. If this product is used in an industrial installation, the zones with risk of explosion should be marked. Use instruments, systems and protective equipment adequate to the classification of zones, according to the

health and safety at work laws, in accordance with Directive 94/9/EC and 99/92/EC. Electrical equipment should be protected to the appropriate standard. No tools with a potential for sparks should be used. Floors should be electrically conductive and operators should wear anti-static footwear and clothing. Elaborate the document

'Protection against explosions'.

- Flash point: 29°C

Setaflash

- Autoignition temperature: 374°C

- Flammability range: 1,3-8,5 % Volume 25°C

- Recommendations for the prevention of toxicological risks: Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

- Recommendations for the prevention of environmental contamination: It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2 Storage conditions: Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. Keep away from living quarters. In order to avoid leaks, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.1. Class of store: Class B1. According to ITC MIE APQ-1, RD.379/2001. Maximum storage period:

12 months. Temperature interval: min: 5°C, max: 32°C.

- Incompatible materials: Keep away from oxidizing agents, acids, alkalis, peroxides.

- Type of packaging: According to current legislation.

- Limit quantity, in accordance with Directive 96/82/EC~2003/105/EC (Seveso III): Lower threshold limit: 5000 tons, Upper threshold limit: 50000 tons.

7.3 Specific uses: For the use of this product do not exist particular recommendations apart from that already indicated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION 98/24/EC

8.1 Occupational Exposure Limits (TLV)
AGCIH 2008

	TWA		STEL		Year
	ppm	mg/m3	ppm	mg/m3	
2-methoxy-1-methylethyl acetate	50	275	100	550	Recommended Dermal
Xylene (mixture of Isomers)	100	434	150	651	A4 1996
n-butyl acetate	150	713	200	950	1998
Ethylbenzene	100	434	125	543	A3 2002

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

A3 - Carcinogenic in animals.

A4 - Non classified as carcinogenic in humans.

8.2 Occupational exposure controls, Directive 89/686/EEC: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particles and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

- Protection of respiratory system: Avoid the inhalation of solvents. Mask: Mask for gases and vapours (EN141). In order to obtain a suitable

protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance

with the specifications supplied by the filter producers.

- Protection of eyes and face: Install emergency eye baths close to the working area. Goggles: Safety goggles designed to protect against liquid splashes (EN166). Face shield: No.

- Protection of hands and skin: Install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred. Gloves: Solvent-resistant gloves (EN374). The breakthrough time

of the selected glove material should be in accordance with the pretended period of use. There

are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. The gloves should be immediately replaced when any sign of degradation is noted. Boots: No. Apron: No. Clothing: It is advisable personnel wear antistatic clothing made of natural fibre or of high temperature resistant synthetic fibre.

8.3 Environmental exposure controls: Avoid any spillage in the environment of the product, wastes, packages or spraybooth sewages. Avoid any release into the atmosphere above the legal limits allowed.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state: Liquid
- Colour: Colourless
- Odour: Characteristic
- Specific gravity: 0,905 g/cc at 20°C
- Boiling point: 126,3°C at 760 mmHg
- Flash point: 29°C Setaflash
- Vapour pressure: 6,2 mmHg at 20°C
- Velocity of evaporation: 75 nBuAc=100 25°C Relative

For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid: Stable under recommended storage and handling conditions.

- Heat: Keep away from sources of heat.
- Light: If possible, avoid direct contact with sunlight.
- Humidity: Avoid extreme humidity conditions.

10.2 Materials to avoid: Possible dangerous reaction with oxidizing agents, acids, alkalis, peroxides.

10.3 Thermal decomposition: As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for this preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC.

11.1 Toxicological effects: Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in

adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Symptoms and signs include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea; other effects may be as described for exposure to vapours. Repeated or prolonged contact with the solvents of the preparation, may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Liquid splashes in the eyes may cause irritation and reversible damage.

11.2 Dose and lethal concentrations for individual ingredients:

	DL50 Oral Inhalation mg/kg	DL50 Cutaneous mg/kg	CL50 mg/l.4hours
2-methoxy-1- acetate	8532 Rat	>5000 Rat	35,7 Rat
Xylene (mixture of n-butyl acetate	4300 Rat 10768 Rat	1700 Rabbit 17600 Rabbit	22 Rat 23,4 Rat
Ethylbenzene	3500 Rat	15400 Rabbit	17,4 Rat

12. ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for this preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC.

12.1 Ecotoxicity for individual ingredients:

	CL50 mg/l.96hours	CE50 mg/l.48hours	CI50 mg/l.72hours
2-methoxy-1- methylethyl acetate	>100 Fishes	408 Daphnia	>1000 Algae
Xylene (mixture of isomers)	14 Fishes	16 Daphnia	
n-butyl acetate	18 Fishes	32 Daphnia	675 Algae
Ethylbenzene	12 Fishes	1,8 Daphnia	33 Algae

12.2 Mobility: Not available.

- Spills on the soil: Prevent contamination of soil.
- Spills in water: Do not allow to escape into drains, sewers or water courses.
- Emissions to the atmosphere: Avoid any release into the atmosphere.
- Product VOC: 907 g/l ASTM D-3960

12.3 Persistence and degradability: Not available.

12.4 Bioaccumulative potential: Not available.

12.5 Results of PBT assessment: Not available.

12.6 Other adverse effects: Not available.

13. CONSIDERATIONS FOR DISPOSAL

13.1 Handling of waste, Directive 75/442/EEC~91/156/EC: Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local/national regulations. For exposure controls and personal protection measures, see section 8.

13.2 Disposal of empty containers, Directive 94/62/EC: Emptied containers and packaging should be disposed of in accordance with currently local/national regulations.

13.3 Procedures for neutralising or destroying the product:

Controlled incineration in special facilities for chemical waste, but in accordance with local regulations.

14. TRANSPORT INFORMATION

PAINT RELATED MATERIAL (FP>23°C)

14.1 Transport by road, Directive

94/55/EC (ADR): Transport by rail, Directive 96/49/EC (RID):

Class: 3 Packaging group: III UN no. 1263
Transport document: Consignment paper
Written instructions.

14.2 Transport by sea (IMDG):

Class: 3 Packaging group: III UN no. 1263
Emergency Sheet (EmS): F-
E,S,E First Aid Guide (MFAG): 310,313
Marine pollutant: No
Transport document: Shipping Bill of lading

14.3 Transport by air (ICAO/IATA):

Class: 3 Packaging group: III UN no. 1263
Transport document: Air Bill of lading

15. INFORMATION ON REGULATIONS

15.1 EC Labelling Xn

This product is FLAMMABLE and HARMFUL in accordance with Guideline 67/548/EEC and 1999/45/EC.

R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin. R38 Irritating to skin.

S23 Do not breathe vapour/spray.

S36/37 Wear suitable protective clothing and gloves.

S51 Use only in well-ventilated areas.

Dangerous ingredients: Xylene (mixture of isomers)

15.2 Restrictions on manufacture, placing on market and use, according to Annex XVII of

Regulation (EC) No. 1907/2006: Not applicable.

15.3 Other regulations: Not available

16. OTHER INFORMATION

Text of R-phrases listed in sections 2 and 3:

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R38 Irritating to skin.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

R20/21 Harmful by inhalation and in contact with skin.

Material Safety Data Sheet regulations: Material Safety Data Sheet in accordance with the

Annex II of the Regulation (EC) No. 1907/2006 (REACH).

Main data sources:

- European Chemicals Bureau: Existing Chemicals, <http://ecb.jrc.ec.europa.eu/existing-chemicals/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- Threshold Limit Values, (AGCIH).
- European agreement on the international carriage of dangerous goods by road, (ADR).
- International Maritime Dangerous Goods Code, IMDG (IMO).

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.