


SAFETY DATA SHEET


According to Commission Regulation (EU) No. 2015/ 830 Annex

	TULPE POWER	The date of compilation:	2010-06-14
		Revision:	2016-04-26
		Version No.	5

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING


Product identifier	Tulpe Power
Relevant identified uses of the substance/ mixture and uses advised against	Cleaning/ maintenance detergent for professional use – oil and fat remover.
Supplier/ Manufacturer	UAB „BS Chemical“, Baltijos pr. 123-9, LT-93224 Klaipeda, Lithuania, tel./fax.: +370 46 366279, www.bs-chemical.com
E-mail address for a competent person responsible for the safety data sheet	dovile@bs-chemical.lt
Emergency telephone number	112 (in Member State of EU). Lithuania: +370 5 236 20 52, +370 687 533 78. Service is available 24 hours. Estonia: 16662, calling from abroad (+372) 626 93 90. Hours of operation are during weekdays from Monday 9AM to Saturday 9AM (closed on Sunday and on national holidays). Latvia: +371 67042473. Service is available 24 hours. Norway: 22 59 13 00. Poland: + 48 58 349 28 31, + 48 12 646 87 06, + 48 61 848 10 11, + 48 22 619 66 54 ext. 1240. 113 (in Member State of CIS). Russia: 8 (495) 621-68-85; 8 (495) 621-68-85. Belarus: +375 17 385 14 22.

2. HAZARDS IDENTIFICATION

Classification of the substance/ mixture and label elements	Signal word: Danger Hazard class: Skin corrosion, subcategory 1A; Hazard statements: H314 Causes severe skin burns and eye damage. Precautionary statements: P280 Wear protective gloves/ protective clothing/ eye (face) protection. P303+P361+P353 IF ON SKIN (or hair): Take off / remove all contaminated clothing. Rinse skin with water / shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor.	 GHS05
Other hazards	Substance/ mixture does not meet the PBT or vPvB classification criteria; at the time MSDS'	

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compilation substances are not on the candidate SVHC (very high concern) list.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Description of substance/ mixture Solution, mixture of substances listed below with no hazardous additions.

Hazardous components:

No	CAS No	EC No	Index No	Mass fraction, %	Chemical name, <i>registration number</i>	Classification
1.	64-17-5	200-578-6	603-002-00-5	5 – 15	ethanol, ethyl alcohol <i>01-2119457610-43-0000</i>	Flam. Liq. 2 H225
2.	67-63-0	200-661-7	603-117-00-0	≤ 5	isopropan-2-ol, isopropyl alcohol, isopropanol <i>01-2119457558-25-0000</i>	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336
3.	68891-38-3	500-234-8	-	≤ 5	alcohols, C12-14, ethoxylated, sulfates, sodium salts <i>01-2119488639-16-0000</i>	Skin. Irrit. 2 H315 Eye Dam. 1 H318
4.	1310-73-2	215-185-3	011-002-00-6	< 5	sodium hydroxide; caustic soda <i>01-2119457892-27-0000</i>	Skin Corr. 1A H314
5.	61789-30-8	263-049-9	-	< 5	fatty acids, coco, potassium salts	Skin. Irrit. 2 H315 Eye Irrit. 2 H319

Note: risk phrases and other signs are listed in Sections 2 and 16.

Components according to EU Detergents Regulation No. 551/2009:

Nonionic surfactants	≤ 5
Anionic surfactants	≤ 5
Phosphonates	< 5


4. FIRST AID MEASURES

Description of first aid measures:

Information of the first aid	In all cases if the damage to health occurred, seek immediate medical attention. Take off contaminated clothing. If a person is unconscious do not give any water/ do not put anything into the mouth. In If substance/mixture poisoning case was discovered immediately contact the nearest Poisons control and information centre.
After inhalation	If inhalation of solution's aerosols or vapors has occurred, immediately stop the contact - take out a suffering person to the fresh air, provide a peace. If respiratory impairment has occurred seek medical advice. If a person lost consciousness, lay him down steadily on a side and carry to the medical institution.
After skin contact	Immediately remove all contaminated clothing, at least 10 – 15 minutes wash with plenty of water. If symptoms of damage develop, seek medical advice.
After eye contact	Rinse opened eye as soon as possible, at least 10 – 15 minutes wash eyes with running water lifting and lowering eyelids. Remove contact lenses, if they present and it is easy to do. Seek immediate medical attention.
After swallowing	Do not induce vomiting, do not give activated carbon. If a person is conscious, remove substance residues from mouth, rinse it with water, do not

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drink water and seek immediate medical attention. Possible breathlessness, suffocation (can release foaming).

Most important symptoms and effects (acute and delayed):

Effects on health seen as corrosion.

Indication of any immediate medical attention and special treatment needed:

In the workplace must be first-aid equipment, instruments eyes flushed.

5. FIREFIGHTING MEASURES

Extinguishing media	The mixture is not flammable. Extinguishing media: water, water spray. Fire-fighting equipment must be selected assessing the properties of around burning materials.
Special hazards arising from the substance/ mixture	It is necessary to know the properties of other chemical substances or mixtures used or stored together.
Advice for firefighters	During the fire, wear respiratory protective equipment and chemical resistant/protective clothing. Protective personal equipment must be chosen assessing the properties of burning around materials.

6. ACCIDENTAL RELEASE MEASURES


Personal precautions, protective equipment and emergency procedures	Sufficient ventilation/ respiratory protection, contact with skin, eyes prevention. Do not breathe vapors. Use appropriate personal protective equipment as indicated in Section 8.
Environmental precautions	Do not pour any spilled out material to the local drains, surface water or nature environment.
Methods/ material for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Neutralize residues and wash off with water. It is prohibited discarding the material in the trash basket or pouring back into the original container. Dispose gathered material according to the instructions. When spills of large quantities, it is necessary to inform the rescue service.
Reference to other sections	View sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling	Store in a tightly closed original packaging in dry ventilated area. Do not store together with acids, strong oxidants. Keep container in the temperature not lower than 0°C and not more than +35°C away from away from sources of heat, direct sunlight.
Conditions for safe storage, including any incompatibilities	For the professional use only. Use only in a well ventilated area, where exhaust ventilation is equipped strictly in accordance with the instructions. Use common rules/instructions when working with chemicals. Do not mix with other chemicals. During the process do not eat, drink or smoke. Do not allow concentration in the air to exceed allowable threshold. Use appropriate personal protective equipment as indicated in Section 8.

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Specific end use(s) For the professional use only.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters according to HN 23:2007:

Name	CAS No.	Allowable concentration
ethanol, ethyl alcohol	64-17-5	IPRD = 1000 mg/m ³ , TPRD = 1900 mg/m ³
propan-2-ol, isopropyl alcohol, isopropanol	67-63-0	IPRD = 350 mg/m ³ , TPRD = 600 mg/m ³
sodium hydroxide; caustic soda	1310-73-2	NRD 2 mg/m ³ U

Notes: IPRD – long-term exposure limit value, TPRD – short-term exposure limit value; NRD – don't exposure limit value; U – acute.

Exposure controls

Appropriate engineering controls General, local exhaust ventilation. Avoid the spills, and any contact with this mixture, see Section 7. Avoid the spills, contact with ground and sewage system.

Personal protective equipment:

General protective and hygienic measures Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of the work. Avoid contact with eyes and skin.

Hand and body protection Protective gloves. The material of the gloves should be resistant to the substance/ mixture. Penetration time of the material check out with manufacturer. Protective clothing, footwear.

Eye protection Protective safety glasses, face covering shields.

Respiratory protection In case of insufficient ventilation in case of accidents - protection against aerosols must be used for half masks with filter for protection against harmful liquid aerosols; against gases and particles - filtering half masks with valves.

Environmental impact control See sections 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES


Form	Liquid
Color	Clear, colourless
Odor	Specific
pH, 1 %, 20-25°C	~ 11,3
The relative density, g/cm ³ , 20°C	1,10 – 1,01

10. STABILITY AND REACTIVITY

Reactivity The mixture is stable.

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Chemical stability	Under normal conditions, and if strictly followed the rules of safe use, the mixture is stable.
Possibility of hazardous reactions	Rreacts with acids.
Conditions to avoid/ incompatible materials	Avoid high temperatures, direct sunlight, acids, reducing agents, light metals combustible organic materials.
Hazardous decomposition products	Reaction products depend on the substances/mixtures involved in the chemical reactions.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects


Acute toxicity	On the basis of chemical information, it can be said that the mixture is not characterized by acute toxicity when swallowed by animals (rats) during the experiment; the rates do not exceed an acute toxicity's estimates.
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes severe eye damage.
Respiratory or skin sensitisation	Not determined/ no data.
Germ cell mutagenicity	On the basis of chemical information, it can be said that the mixture is not characterized by germ cell mutagenicity: no evidence of mutagenic effect of components.
Carcinogenicity	On the basis of chemical information, it can be said that the mixture is not characterized by carcinogenicity: no evidence of carcinogenicity effect of components.
Reproductive toxicity	On the basis of chemical information, it can be said that the mixture is not characterized by reproductive toxicity: no evidence of reproductive toxicity effect of components.
STOT-single exposure	Not determined/ no data.
STOT-repeated exposure	Not determined/ no data.
Aspiration hazard	Not determined/ no data.
Additional toxicological information	The effect depends on the concentration and on time from one second to minute.

12. ECOLOGICAL INFORMATION

Toxicity	On the basis of chemical information, it can be said that mixture is not characterized by toxicity categories.
Persistence and degradability	On the basis of chemical information can be said that the product is biodegradable. The biodegradation process of mixture (surfactants) in the

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environment is in accordance with requirements of Detergents Regulation No 551/ 2009. Contains phosphate compounds are biodegradable, 22 - 23% within 28 days (according to OECD 301D).

Bioaccumulative potential

Not accumulate in fatty tissues.

Mobility in soil

Soluble in water, spread out, neutralize. Before being released into waste water or sewage system must be diluted with water or neutralized.

Results of PBT and vPvB assessment

Components are not classified as PBT and vPvB substances.

Other adverse effects

Threat to aquatic and soil organisms can be caused by changes in local environment's pH. Contains phosphorus compounds stimulates eutrophication.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal of product

Waste must be managed according to the Waste Management Act. Do not dispose in the trash, local and storm sewage system, surface water or environment. Waste code: 07 06 fats, grease, soaps, detergents, disinfectants and cosmetics waste; 20 municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions; 20 01 29* detergents containing hazardous substances; 20 01 30 detergents other than those mentioned in 20 01 29.

Disposal of packaging

Packaging waste must be handled according to packaging and packaging waste management act. The product must be diluted with water or neutralized before released into sewage system. Washed and dried packaging can be reused or given back to packaging waste management companies. Packaging waste code 15 01 02 plastic (including PET) packaging; 15 01 10 contaminated packaging or containing dangerous chemical residues.

14. TRANSPORT INFORMATION

Transport classification

Land transport ADR / RID (international/internal transportation).

UN number

Not applicable.

Special precautions for user

Do not damage packaging.

15. REGULATORY INFORMATION


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

Commission Regulation (EC) No. 286/2011; 1272/2008; 1907/2006; 2015/830.

Commission Regulation (EC) No. 551/2009.

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HN 23:2007 “Occupational exposure limit values. Measuring the Impact Assessment and General Requirements”.

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Chemical safety assessment Chemical safety assessments are conducted for present substances (isopropanol, ethanol, sodium hydroxide).

16. OTHER INFORMATION

Explanations of Hazard symbols and numeric characters (described in Section 3):

Flam. Liq. 2	Flammable liquids, category 2
STOT SE 3	Specific target organ toxicity (single exposure).
Skin Irrit. 2	Skin corrosion/Irritation, category 2.
Eye Dam. 1	Serious damage to eyes/eye irritation, category 1.
Eye Irrit. 2	Serious damage to eyes/eye irritation, category 2.
H225	Highly flammable liquid and vapour.
H315	Causes skin.
H318	Causes severe eye damage.
H319	Causes severe eye irritation.
H336	May cause drowsiness or dizziness.

Abbreviations and acronyms:

PBT	persistent, bioaccumulative and toxic chemical substances
vPvB	very persistent and very bioaccumulative chemical substances

This safety data sheet must be available to anyone who works with this type of chemical product. Data is in line with our current knowledge and it describes a chemical product, offers safety, occupational health, and environmental recommendations. This information will be added if new data about this chemical product will be ready. Material Safety Data Sheet does not disclose any specific chemical characteristics of the product.