

according to Regulation (EC) No 1907/2006 (REACH) as amended

BALTECH P6413 TECHNICAL ETHANOL

Creation date	02nd September 2009	Version	5.0
Revision date	09th December 2021		

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

1.1. Product identifier	BALTECH P6413 TECHNICAL ETHANOL
Substance / mixture	substance
Chemical name	ethanol
CAS number	64-17-5
Index number	603-002-00-5
EC (EINECS) number	200-578-6
Registration number	01-2119457610-43

1.2. Relevant identified uses of the substance or mixture and uses advised against**Substance's intended use**

Thinner for ethanol-based paints, special solvent, cleaning agent, fuel.

Substance uses advised against

The product should not be used in ways other than those referred in Section 1.

Exposure scenario is attached to the Safety Data Sheet.

1.3. Details of the supplier of the safety data sheet**Distributor**

Name or trade name	BARVY A LAKY TELURIA,s.r.o.
Address	č.p.1, Skrchov, 679 61 Czech Republic
Identification number (CRN)	43420371
VAT Reg No	CZ43420371
Phone	+420 516 474 211
E-mail	tel@teluria.cz
Web address	http://www.bal.cz

Competent person responsible for the safety data sheet

Name	BARVY A LAKY TELURIA,s.r.o.
E-mail	tel@teluria.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification of the substance in accordance with Regulation (EC) No 1272/2008**

The substance is classified as dangerous.

Flam. Liq. 2, H225

Eye Irrit. 2, H319

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes serious eye irritation.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Dangerous substance

ethanol
 (Index: 603-002-00-5; CAS: 64-17-5)

Hazard statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.

Precautionary statements

P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear eye protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501 Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

Solution of ethanol and denaturants.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	substance main component ethanol	>86	Flam. Liq. 2, H225 Eye Irrit. 2, H319	
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 Registration number: 01-2119457290-43	butanone	1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1
CAS: 3734-33-6 EC: 223-095-2	Denatonium benzoate	0,001	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	

Notes

1 Substance with a Union workplace exposure limit.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures
4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

4.2. Most important symptoms and effects, both acute and delayed
If inhaled

Not expected.

If on skin

Not expected.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment. If you see a doctor, take this safety data sheet with you.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For workers apart from emergency teams: Avoid inhalation of vapour, prevent skin and eye contact. Wear appropriate protective clothing and gloves. Wear eye protection and face shield if necessary. Use suitable respiratory protection. In closed spaces, ensure fresh air supply. Eliminate all ignition sources. No smoking and no open fire. Keep unnecessary personnel away.

For members of emergency teams: Use appropriate personal protective equipment – protective clothing with antistatic finish and impermeable work shoes. Treat unprotected skin with barrier cream. Anti-chemical protective gloves. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. If possible prevent leakage, close container and place damaged container in protective container.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1. General health measures

Use the product after due familiarization with its hazard characteristics and proper training or training in its safe use. Do not eat, drink, smoke on the site. Wash your hands and other contaminated parts of body by soap and water before eating and after the use of product is finished. Abide by requirements on personal hygiene when working with hazardous chemical products.

Use technical equipment on the site to control human and environment exposure. Regularly inspect the equipment, ensure cleaning, timely maintenance and permanent functionality. When working, use the recommended personal protective equipment listed in 8.2 of the Safety Data Sheet and in Annex to the Safety Data Sheet. Keep the protective clothing and protective equipment sound and clean. Immediately replace the damaged protective aids for sound ones. Keep the site, tools and aids clean and in sound state. On the site, keep the product in labelled containers or tanks. Store product waste and wastes contaminated by the product in suitable and properly labelled vessels located on designated marked and protected places. Ensure long-term storing of wastes containing the product outside the site.

7.1.2. Fire precautions

When using the product, prevent potential ignition or explosion of the mixture of product vapour and air caused by contact with open flame, sparks, extremely hot surfaces, electrostatic discharges. Do not smoke on the site, use non-sparking tools. Places with increased occurrence of the vapour-air mixture need to be ventilated to prevent formation of explosive mixtures. Solvent vapours are heavier than air. The site should be protected from electrostatic discharges.

7.1.3. Environmental precautions

Handle the product on a site technically adapted to avoid accidental leakage to sewerage systems, water or soil. Product waste and wastes contaminated by the product to be disposed of as hazardous waste. Waste water contaminated by the product may only be discharged to water reservoirs after the product components are properly removed in a waste water treatment plant or in other appropriate treatment plant able to remove drifted product components from water. Do not pour the product to waste water. Emissions of solvent from point sources are subjected to control requirements acc. to air protection regulations.

7.2. Conditions for safe storage, including any incompatibilities

Store the product in properly marked, closed containers in well ventilated spaces at 5 – 25 °C. The storages must meet the requirements on storing of flammable liquids and substances hazardous for aquatic life and soil. Protect from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Store away from oxidising substances and strong acids. Do not store with food, drinks, feed material, medicines. Storages should be protected from static electricity. First aid kit and water suitable for eye rinsing should be available. Keep away from products that are corrosive to metals (eg acids or pool chemicals).

Content	Packaging type	Material of package
700 ml	can / tin	FE
400 ml	can / tin	FE
400 ml	bottle	PET
700 ml	bottle	PET
4 l	jerry can	FE
9 l	jerry can	FE
150 kg	barrel / drum	FE

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Storage class 3A - Flammable liquids (flash point below 55 °C)
 Storage temperature min 5 °C, max 30 °C

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

The conclusions of the chemical safety assessment of a substance for use as a solvent, as a paint thinner, as a fuel and as a cleaning agent are incorporated in the relevant sections of the safety data sheet. Specific requirements for the safe industrial and professional use of the thinner from the point of view of worker protection and environmental protection, developed on the basis of information from exposure scenarios for the given types of use, are given in the annex to the safety data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
butanone (CAS: 78-93-3)	OEL 8 hours	600 mg/m ³
	OEL 8 hours	200 ppm
	OEL 15 minutes	900 mg/m ³
	OEL 15 minutes	300 ppm

DNEL

ethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	950 mg/m ³	Systemic chronic effects	
Workers	Inhalation	1900 mg/m ³	Local acute effects	
Workers	Dermal	343 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	114 mg/m ³	Systemic chronic effects	
Consumers	Inhalation	950 mg/m ³	Local acute effects	
Consumers	Dermal	206 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	87 mg/kg bw/day	Systemic chronic effects	

propan-2-ol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	500 mg/m ³	Systemic chronic effects	
Workers	Dermal	888 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	319 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	26 mg/kg bw/day	Systemic chronic effects	

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PNEC

ethanol

Route of exposure	Value	Determining method
Freshwater environment	0.96 mg/l	
Seawater	0.79 mg/l	
Water (intermittent release)	2.75 mg/l	
Microorganisms in wastewater treatment plants	580 mg/l	
Freshwater sediment	3.6 mg/kg of dry substance of sediment	
Sea sediments	2.9 mg/kg of dry substance of sediment	
Soil (agricultural)	0.63 mg/kg of dry substance of soil	

propan-2-ol

Route of exposure	Value	Determining method
Freshwater environment	140.9 mg/l	
Seawater	140.9 mg/l	
Water (intermittent release)	140.9 mg/l	
Microorganisms in wastewater treatment plants	2251 g/l	
Freshwater sediment	552 mg/kg of dry substance of sediment	
Sea sediments	552 mg/kg of dry substance of sediment	
Soil (agricultural)	28 mg/kg of dry substance of soil	

8.2. Exposure controls

Conditions of safe use of the registered product composition components specified in exposure scenarios to Safety Data Sheets of the components are given in Annex of the SDS, including the required additional measures restricting the exposure – see the exposure scenarios for the intended uses of the product.

General safety and hygienic measures. When working, do not eat, drink, smoke. Before the break and after the work, hands should be washed with soap and hot water, treated with barrier cream. Overall and local ventilation, effective extraction.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

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Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Ensure that containers are properly closed during storage, handling and transport. Secure storage areas against possible leakage of product into the environment (sewerage, water, soil - see 6.2). Do not flush product into drains or watercourses.

More information

Exposure scenario is attached to the Safety Data Sheet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	containing alcohol
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	78-83 °C
Flammability	inflammable
Lower and upper explosion limit	
bottom	3,5 %
upper	15 %
Flash point	12 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	5-9 (undiluted)
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	59 hPa at 20 °C
Density and/or relative density	
Density	0,83 g/cm ³ at 20 °C
Relative vapour density	1,59
Particle characteristics	data not available
Form	liquid: volatile

9.2. Other information

Content of organic solvents (VOC)	0,88 kg/kg
Total organic carbon (TOC)	0,48 kg/kg

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is volatile and evaporates under standard temperature and pressure. It is stable when stored and handled under standard ambient conditions.

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10.3. Possibility of hazardous reactions

No known dangerous reactions when used under standard conditions. Flammable liquid. Vapours may form explosive mixture with air. Vapours are heavier than air, accumulate near the ground and below ground, and the fire can spread over long distances.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

ethanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	2000 mg/kg		Rat (Rattus norvegicus)	

propan-2-ol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	5840 mg/kg bw		Rat	
Inhalation	LC50	10000 mg/l		Rat	
Dermal	LD50	16.4 ml/kg bw		Rabbit	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

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Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

The complete mixture has not been tested. The classification is based on the calculation method. Information on toxic effects are based on the effects of the substances, the data are taken from the safety data sheets of raw materials. The mixture is not classified as dangerous for the environment. The mixture is a source of volatile organic emissions. Avoid release to the environment.

ethanol

Parameter	Value	Time of exposure	Species	Environment
LC50	8140 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC50	9248 mg/l	48 hour	Daphnia (Daphnia magna)	
EC50	5000 mg/l	72 hour	Algae (Selenastrum capricornutum)	

propan-2-ol

Parameter	Value	Time of exposure	Species	Environment
LC50	9.64-10 g/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC50	10 g/l	24 hour	Aquatic invertebrates	

12.2. Persistence and degradability

Data for mixture not available.

12.3. Bioaccumulative potential

Data for mixture not available.

12.4. Mobility in soil

The mixture is a liquid insoluble in water, in case of leakage into environment, it may be dispersed over large distances and penetrate into underground water. It contains components with the potential of mobility in soil. When released into the soil may occur due to contamination of groundwater.

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12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

07 03 04 other organic solvents, washing liquids and mother liquors *

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1170

14.2. UN proper shipping name

ETHANOL SOLUTION

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not available

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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Additional information

Hazard identification No.	33
UN number	1170
Classification code	F1
Safety signs	3



Air transport - ICAO/IATA

Packaging instructions passenger	353
Cargo packaging instructions	364

Marine transport - IMDG

EmS (emergency plan)	F-E, S-D
MFAG	305

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

The relevant exposure scenarios are incorporated in the annex to the safety data sheet.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Guidelines for safe handling used in the safety data sheet

P280	Wear eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P102	Keep out of reach of children.
P501	Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.

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A list of additional standard phrases used in the safety data sheet

EUH066 Repeated exposure may cause skin dryness or cracking.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid

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Skin Irrit. Skin irritation
STOT SE Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

The product is exclusively intended for use in installations authorised according to Directive 1999/13/EC where emission limiting measures provide alternative means of achieving at least equivalent VOC emission reductions.

Information about data sources used to compile the Safety Data Sheet

Commission Regulation (EU) 2020/878 of 18 June 2020. REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

Version 4.0 replaces version of 10.10.2017. Overall revision of SDS in accordance with Commission Regulation (EU) 2020/878.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

Supplement to the Safety Data Sheet for P6402 TECHNICAL ALCOHOL

Instructions for safe use of the product

Industrial use for cleaning, as a diluent and as a fuel	
This applies to the use of the product as a cleaning agent, as a diluent and as a fuel in alcohol cookers, including transfer of the product from warehouses, charging/discharging from/to containers and equipment, exposure during mixing and dilution at the preparation stage of use, application processes (including spraying, brushing, dipping, mechanical and hand wiping), cleaning and maintenance of the relevant equipment, laboratory activities.	
Descriptors of the individual activities involved	PROC1, PROC2, PROC3, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC15, PROC16, PROC19; ERC4; ERC7 (as a fuel)
General conditions for the validity of the instructions	The following instructions apply to work with the product in undiluted form, at a temperature not exceeding the ambient temperature by more than 20°C, 8 hours a day, inside. Basic principles of good work hygiene apply at the workplace (see section 7 of the safety data sheet).
Basic requirements for the technical conditions of use and measures to reduce risks	If there is a risk of atomisation and exposure of eyes, use safety goggles or a shield. If there is a risk of hand contamination, use safety gloves (see sec. 8.2 of the SDS) If NPK or PEL values are exceeded, use respiratory protection (see sec. 8 of the SDS). Unless otherwise specified hereinafter, ensure a good level of ventilation at the workplace (air exchange at least 3–5 times an hour). This can be achieved by ventilation through open windows and doors or by using more efficient forced ventilation systems (10-15 air changes per hour). The workplace must meet the requirements for work with highly flammable liquids capable of producing explosive vapor-air mixtures. The workplace is protected from accidental leakage of the product in water or soil.
Specific requirements for safe use in terms of worker protection:	
Individual activities	Further requirements for the technical conditions of use and measures to reduce risks
Use of the substance in closed continuous and batch processes (PROC1, PROC2, PROC3)	No further measures required.
Use of the substance when mixing and diluting in open equipment (PROC5)	In areas where product emissions may be released in the air.
Application by industrial spraying/misting (PROC7)	Machine application in a closed chamber equipped with a local exhaust system or to use a protective mask according to EN 140 with a type A filter or better, if ventilation with laminar flow is not available.
Product transfer, charging, discharging in an open system where exposure is to be expected (PROC8a)	Use a local exhaust system in areas where emissions are released in the air.
Product transfer, charging, discharging in a closed system with limited exposure (PROC8b)	No further measures required.
Roller application or brushing, as well as cleaning of the tools (PROC10)	Use a local exhaust system in areas where emissions are released in the air.
Application by dipping or pouring (PROC13)	Use a local exhaust system in areas where emissions are released in the air.
Hand-wiping, hand-mixing and hand-application (PROC19)	Use safety gloves resistant to chemicals (see sec. 8.2 of the SDS).
Laboratory activities (PROC15)	No further measures required.
Use as a fuel source (PROC16)	No further measures required.
Product waste and product-contaminated waste	Wear protective gloves if there is a risk of contact with waste. Dispose of wastes in sealed containers stored in well-ventilated areas or outdoors. Waste to ensure against leakage into water and soil.
Specific requirements in terms of environmental protection:	
Air protection requirements	If required, reduce product emissions in the air as per requirements of air protection regulations by retention or incineration.
Water protection requirements	Water contaminated with the product before release in surface or ground water is to be treated using physical or biological methods to achieve residual level of contamination as specified by water protection regulations.
Waste management requirements	As appropriate, waste is to be used, regenerated or disposed of as dangerous waste by incineration.

Professional use for cleaning, as a diluent or as a fuel	
This applies to the use of the product as a cleaning agent, as a diluent and as a fuel in alcohol cookers, including transfer of the product from warehouses, charging/discharging from/to containers and equipment, exposure during mixing and dilution at the preparation stage of use, application processes (including spraying, brushing, dipping, mechanical and hand wiping), and cleaning and maintenance of the relevant equipment.	
Descriptors of the individual activities involved	PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC16, PROC19; ERC8a, ERC8d; ERC9a a ERC9b (as a fuel)
General conditions for the validity of the instructions	The following instructions apply to work with the product in undiluted form, at a temperature not exceeding the ambient temperature by more than 20°C, 8 hours a day, outside. Basic principles of good work hygiene apply at the workplace (see section 7 of the SDS).
Basic requirements for the technical conditions of use and measures to reduce risks	If there is a risk of atomisation and exposure of eyes, use safety goggles or a shield. If there is a risk of hand contamination, use safety gloves (see sec. 8.2 of the SDS) Unless otherwise specified hereinafter, provide good level of basic ventilation at the workplace (air exchange 3-5 times an hour) or better. This can be achieved by ventilation through open windows and doors or by using more efficient forced ventilation systems (10-15 air changes per hour). If NPK or PEL values are exceeded, use respiratory protection (see sec. 8 of the SDS). The workplace must meet the requirements for work with highly flammable liquids capable of producing explosive vapor-air mixtures (see sec. 7 of the SDS).
Specific requirements for safe use in terms of worker protection:	
Individual activities	Further requirements for the technical conditions of use and measures to reduce risks
Use of the substance in closed continuous and batch processes (PROC1, PROC2, PROC3)	No further measures required.
Use of the substance when mixing and diluting in open equipment (PROC5)	When working inside, reduce emissions in the air by using a local exhaust system.
	When working outside, no other measures are required.
Product transfer, charging, discharging in an open system where exposure is to be expected (PROC8a) (any of the procedures can be used)	When working inside, use a local exhaust system in areas with potential emissions.
	Work inside without a local exhaust system shall not exceed 4 hours a day. For the rest of the shift, the worker shall not be exposed to product vapours.
	Work outside.
Product transfer, charging, discharging in a closed system with limited possibility of exposure (PROC8a)	No further measures required.
Roller application or brushing, as well as cleaning of the tools (PROC10) (any of the procedures can be used)	When working inside, use a local exhaust system in areas with potential emissions.
	When working inside without the use of a local exhaust system, use a mixture containing max. 25% of the product.
	Work inside with the product in concentrated form without any further requirements for ventilation or use of respiratory protection shall not exceed 4 hours a day. For the rest of the shift, the worker shall not be exposed to product vapours.
Application by non-industrial (manual) spraying/misting (PROC11) (any of the procedures can be used)	Work inside is to be carried out in chambers equipped with a local exhaust system with min. 80% efficiency or to use a protective mask according to EN 140 with a type A filter or better.
	Mixtures containing more than 25% of the product or the pure product can be sprayed for up to 1 hour a day without the need for further action. For the rest of the shift, the worker shall not be exposed to product vapours.
	Mixtures containing 5-25% of the product can be sprayed without the need for additional measures up to 4 hours a day. For the rest of the shift, the worker shall not be exposed to product vapours.
	Mixtures containing up to 5% ethanol can be sprayed without the need for additional measures for eight hours a day.
Application by dipping or pouring (PROC13)	No further measures required.
Hand-wiping, hand-mixing and hand-application (PROC19) (any of the procedures can be used)	When working inside or outside for more than 4 hours a day, work with a mixture containing no more than 25% of the product.
	Work with the product in concentrated form shall not exceed 4 hour a day. For the rest of the shift, the worker shall not be exposed to product vapours.
Laboratory activities (PROC15)	No further measures required.
Use as a fuel source (PROC16)	No further measures required.
Product waste and product-contaminated waste	Wear protective gloves if there is a risk of contact with waste. Dispose of wastes in sealed containers stored in well-ventilated areas or outdoors. Waste to ensure against leakage into water and soil.

Specific requirements in terms of environmental protection:	
Air protection requirements	When working outside, no other measures to reduce emissions are required. When working inside, reduce product emissions in the air depending on the activity being carried out and on the yearly amount of volatile organic compounds used according to requirements of air protection regulations.
Water protection requirements	Water contaminated with the product before release in surface or ground water is to be treated using physical or biological methods to achieve residual level of contamination as specified by water protection regulations.
Waste management requirements	As appropriate, waste is to be used, regenerated or disposed of as dangerous waste by incineration.