

Page 1/12

# Safety Data Sheet according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

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

· 1.1 Product identifier

· Trade name: Ethanol Industrial (IMS 96%)

· Product Code: 40-1704-10, 40-1704-25

· Registration number Mixture

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC21 Laboratory chemicals
- · Application of the substance / the mixture Laboratory chemicals
- · Uses advised against

Any use involving aerosol formation or vapour release in excess of the assigned Workplace Exposure Limit where workers are exposed without suitable Respiratory Protective Equipment.

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Processes involving the use of incompatible substances - refer to section 10.

Processes involving extreme heat use advised against.

### · 1.3 Details of the supplier of the safety data sheet

· Supplier:

Severn Biotech Ltd.

Unit 2,

Park Lane,

Kidderminster,

Worcestershire.

DY11 6TJ

UK

Tel: 0044 1562 825286 Fax: 0044 1562 825284

email: info@severnbiotech.com

- · Further information obtainable from: Product safety department.
- · 1.4 Emergency telephone number:

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to GB-CLP

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 2 H371 May cause damage to the central nervous system and the visual organs.

- · 2.2 Label elements
- $\cdot \ \textbf{Labelling according to GB-CLP} \ The \ product \ is \ classified \ and \ labelled \ according \ to \ the \ GB \ CLP \ regulation.$
- · Hazard pictograms







GHS02 GHS07

GE

· Signal word Danger



Page 2/12

# Safety Data Sheet according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

Trade name: Ethanol Industrial (IMS 96%)

(Contd. of page 1)

### · Hazard-determining components of labelling:

Methanol

### · Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H371 May cause damage to the central nervous system and the visual organs.

### · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe mist/vapours/spray.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

· 2.3 Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.

# **SECTION 3: Composition/information on ingredients**

### · 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 64-17-5 EINECS: 200-578-6	Ethanol	50 – 100%
Index number: 603-002-00-5	♦ Flam. Liq. 2, H225; ♦ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	
Reg.nr.: 01-2119457610-43-XXXX		
CAS: 67-56-1	Methanol	3 – < 10%
EINECS: 200-659-6	♠ Flam. Liq. 2, H225; ♠ Acute Tox. 3, H301; Acute Tox. 3,	
Index number: 603-001-00-X	H311; Acute Tox. 3, H331; 🗞 STOT SE 1, H370	
Reg.nr.: 01-2119433307-44-XXXX	ATE: LD50 oral: 100 mg/kg	
	LD50 dermal: 300 mg/kg	
	LC50/4 h inhalative: 3 mg/l	
	Specific concentration limits: STOT SE 1; H370: C ≥ 10 %	
	STOT SE 2; H371: 3 % ≤ C < 10 %	

<sup>·</sup> Additional information: For the wording of the listed hazard phrases refer to section 16.

### **SECTION 4: First aid measures**

# · 4.1 Description of first aid measures

### · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

### · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

# · After skin contact:

Immediately rinse with water.

(Contd. on page 3)



Page 3/12

# Safety Data Sheet according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

Trade name: Ethanol Industrial (IMS 96%)

(Contd. of page 2)

If skin irritation continues, consult a doctor.

· After eye contact:

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

- · Information for doctor: Treat symptomatically and supportively.
- · 4.2 Most important symptoms and effects, both acute and delayed

Headache

Dizziness

Nausea

Unconsciousness

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

No further relevant information available.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

Flammable. Vapors may travel to source of ignition and flash back.

Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur.

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

- · 5.3 Advice for firefighters
- · Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

· Additional information

Absorb gas/vapours with water spray.

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

### **SECTION 6: Accidental release measures**

# · 6.1 Personal precautions, protective equipment and emergency procedures

Keep ignition sources away - no smoking.

Wear protective equipment. Keep unprotected persons away.

Vapours are heavier than air. They can spread along the ground and collect in confined spaces.

· 6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any water course in the undiluted form.

Inform respective authorities in case of seepage into water course or sewage system.

(Contd. on page 4)



Page 4/12

# **Safety Data Sheet** according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

Trade name: Ethanol Industrial (IMS 96%)

(Contd. of page 3)

### · 6.3 Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible, absorbent material e.g.sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

# Ensure adequate ventilation. • 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Welding and other hot work operations in the work area must only be permitted under supervision.

Conduct maintenance and other work on or in storage/reactor/mixing vessels or closed spaces ONLY under strict Permit to Work conditions.

Vapour is heavier than air. Beware of accumulation in pits and confined spaces.

# $\cdot$ Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

### · 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

- · Information about storage in one common storage facility: Store away from oxidising agents.
- · Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

### · Ingredients with limit values that require monitoring at the workplace:

CAS: 64-17-5 Ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

**CAS: 67-56-1 Methanol** 

WEL Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 mg/m³, 200 ppm

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(Contd. on page 5)



Page 5/12

# Safety Data Sheet according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

Trade name: Ethanol Industrial (IMS 96%)

(Contd. of page 4)

· DNELs			
CAS: 64-1	CAS: 64-17-5 Ethanol		
Oral	Long-term systemic effects	87 mg/kg bw/day (general population)	
Dermal	Long-term systemic effects	206 mg/kg bw/day (general population)	
		343 mg/kg bw/day (worker)	
Inhalative	Long-term systemic effects	114 mg/m³ (general population)	
		380 mg/m³ (worker)	
	Short-term local effects	950 mg/m³ (general population)	
		1,900 mg/m³ (worker)	
CAS: 67-5	6-1 Methanol		
Oral	Long-term systemic effects	4 mg/kg bw/day (general population)	
	Short-term systemic effects	4 mg/kg bw/day (general population)	
Dermal	Long-term systemic effects	4 mg/kg bw/day (general population)	
		20 mg/kg bw/day (worker)	
	Short-term systemic effects	4 mg/kg bw/day (general population)	
		20 mg/kg bw/day (worker)	
Inhalative	Long-term systemic effects	26 mg/m³ (general population)	
		130 mg/m³ (worker)	
	Short-term systemic effects	26 mg/m³ (general population)	
		130 mg/m³ (worker)	
	Long-term local effects	26 mg/m³ (general population)	
		130 mg/m³ (worker)	
	Short-term local effects	26 mg/m³ (general population)	
		130 mg/m³ (worker)	

# · PNECs

# **CAS: 64-17-5 Ethanol**

	Freshwater	960 μg/L
	Freshwater - Intermittent releases	2.75 mg/L
	Marine water	790 μg/L
	Sewage Treatment Plant	580 mg/L
	Sediment (freshwater)	3.6 mg/kg
	Sediment (marine water)	2.9 mg/kg
	Soil	630 μg/kg
	Secondary poisoning	380 – 720 mg/kg food
_	4 3 34 4	

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- **Appropriate engineering controls** No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.

Take note of assigned Workplace Exposure Limits.



Page 6/12

# Safety Data Sheet according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

Trade name: Ethanol Industrial (IMS 96%)

(Contd. of page 5)

Pregnant women should strictly avoid inhalation or skin contact.

Ensure that eyewash stations and safety showers are close to the workstation location.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

### Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A for organic vapours

### · Hand protection



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

# · Penetration time of glove material

Break-through time: > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### · Eye/face protection



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### · Body protection:



Flame retardant antistatic protective clothing.

Body protection must be chosen depending on product properties, activity and possible exposure.

- · Environmental exposure controls Do not let product enter drains. Risk of explosion.
- · Risk management measures The operators shall be instructed adequately.

# **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- · General Information

Physical state
Colour:
Colourless
Odour:
Alcohol-like
Odour threshold:
Not determined.

· Melting point/freezing point: -114 °C

Boiling point or initial boiling point and boiling range 78 °C
 Flammability
 Not applicable.

(Contd. on page 7)



Page 7/12

# Safety Data Sheet according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

Trade name: Ethanol Industrial (IMS 96%)

(Contd. of page 6)

	(Contd. of page 6
· Lower and upper explosion limit	
· Lower:	2.5 Vol %
· Upper:	13 Vol %
· Flash point:	12 °C
· Auto-ignition temperature:	> 350 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	Not determined.
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
Solubility	Not determined.
water at 20 °C:	1,000 g/l
	Not determined.
Partition coefficient n-octanol/water (log value)	59 hPa
Vapour pressure at 20 °C:	
Vapour pressure at 50 °C:	280 hPa
Density and/or relative density	0.70 -/3
Density at 20 °C:	$0.79 \text{ g/cm}^3$
Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	NOTE: The physical data presented above are typical
	values and should not be construed as a specification.
· Appearance:	
· Form:	Fluid
· Important information on protection of health a	
environment, and on safety.	
· Ignition temperature:	Product is not self-igniting.
· Explosive properties:	Product is not explosive. However, formation of explosive
Employer of Properties	air/vapour mixtures are possible.
· Solvent content:	un, supour minores une possiere.
· VOC (EC)	100.00 %
· Molecular weight	46 g/mol
· Change in condition	10 8 1101
· Evaporation rate	Not determined.
<u> </u>	
Information with regard to physical hazard classes	
· Explosives	Not applicable
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gas	ses
in contact with water	Not applicable
· Oxidising liquids	Not applicable
· Oxidising solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable



Page 8/12

# Safety Data Sheet according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

Trade name: Ethanol Industrial (IMS 96%)

(Contd. of page 7)

· Desensitised explosives

Not applicable

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Forms explosive gas mixture with air.

Reacts violently with oxidising agents.

- · 10.4 Conditions to avoid Heat and static discharge.
- 10.5 Incompatible materials: Strong acids and oxidising agents
- · 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

# **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	values r	elevant for	classification:
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ATE (Acute Toxicity Estimates)			
Oral	LD50	2,857.1 mg/kg	
	LD50	8,571.4 mg/kg	
Inhalative	LC50/4 h	85.714 mg/l	

### **CAS: 64-17-5 Ethanol**

0.167 V. 1. C 24.14.14.		
Oral	LD50	> 10,000 mg/kg (rat)
Dermal	LD50	> 10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 100 mg/l (rat)

- · Primary irritant effect:
- · 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.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure

May cause damage to the central nervous system and the visual organs.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Subacute to chronic toxicity:

Prolonged or repeated skin contact may irritate and cause dermatitis.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: May have effects on the central nervous system.

· Additional toxicological information:

ROUTES OF EXPOSURE: The component substances can variously be absorbed into the body by inhalation, through the skin and by ingestion.

Ingestion of high doses could cause effects on the central nervous system, kidneys and gastrointestinal tract.

(Contd. on page 9)



Page 9/12

# **Safety Data Sheet** according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

Trade name: Ethanol Industrial (IMS 96%)

(Contd. of page 8)

- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients are listed.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

**CAS: 64-17-5 Ethanol** 

EC50 (96 h) 454 mg/l (Bacteria)

- · 12.2 Persistence and degradability biodegradable
- 12.3 Bioaccumulative potential Contains components with the potential to bioaccumulate.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

- · Uncleaned packaging:
- · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Do not mix with other waste streams.

· Recommended cleansing agents: Large quantities of water

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Page 10/12

# Safety Data Sheet according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

Trade name: Ethanol Industrial (IMS 96%)

(Contd. of page 9)

SECTION 14: Transport informati	ion	
· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA	UN1170	
<ul><li>14.2 UN proper shipping name</li><li>ADR/RID/ADN</li><li>IMDG</li><li>IATA</li></ul>	UN1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) ETHANOL SOLUTION	
· 14.3 Transport hazard class(es) · ADR/RID/ADN, IMDG, IATA		
· Class · Label	3 Flammable liquids.	
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	II	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Warning: Flammable liquids.	
<ul><li> Hazchem Code:</li><li> Stowage Category</li></ul>	•2YE A	
• 14.7 Maritime transport in bulk according to IMO instruments Not applicable.		
· Transport/Additional information:		
· ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
· Tunnel restriction code	D/E	
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
· UN "Model Regulation":	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II	



Page 11/12

# Safety Data Sheet according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

Trade name: Ethanol Industrial (IMS 96%)

(Contd. of page 10)

# **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act

### · Regulated explosives precursors

None of the ingredients are listed.

### · Regulated poisons

None of the ingredients are listed.

### · Reportable explosives precursors

None of the ingredients are listed.

### · Reportable poisons

None of the ingredients are listed.

- · Control Of Major Accident Hazards Regulations 2015 (COMAH)
- · Named dangerous substances ANNEX I None of the ingredients are listed.
- · COMAH category P5c
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

### · Relevant phrases

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H370 Causes damage to organs.

H371 May cause damage to organs.

# · Training hints

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

· Department issuing SDS: Product safety department.

### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent



Page 12/12

# **Safety Data Sheet** according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025 Version number 2 Revision: 11.07.2025

Trade name: Ethanol Industrial (IMS 96%)

(Contd. of page 11)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1 STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

\* \* Data compared to the previous version altered.

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