

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 24/03/2021 Revision date: 01/05/2023 Supersedes version of: 24/03/2021 Version: 1.1

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

#### 1.1. Product identifier

Product form : Substance

Substance name : Ethanol 96% denatured with Bitrex

 IUPAC name
 : Ethanol

 EC-No.
 : 200-578-6

 CAS-No.
 : 64-17-5

REACH registration No. : 01-2119457610-43-xxxx

Formula : C2H6O

Chemical structure



#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Use of the substance/mixture : Solvents

Chemical raw material

Diluents

#### 1.2.2. Uses advised against

No additional information available

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

Sasma

Willem Dreeslaan 301

2729 NE Zoetermeer - Zuid-Holland

Netherlands

T +31 79 363 30 64

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## 1.4. Emergency telephone number

**Emergency number** 

: Worldwide: For Hazardous Materials (or Dangerous Goods) Incident, Spill, Leak, Exposure, or Acident – Call NCEC Day or Night(24/7) +441865407333 - SASMA29003-NCEC

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225 Serious eye damage/eye irritation, Category 2 H319

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes serious eye irritation.

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#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS02

: Danger

GHS07

Signal word (CLP)

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P210 - Keep away from hot surfaces, open flames, sparks, heat. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical, ventilating, lighting equipment.

P264 - Wash hands thoroughly after handling.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P337+P313 - If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Ethanol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
denatonium benzoate (Bitrex) (3734-33-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Water	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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

## 3.1. Substances

Name : Ethanol 96% denatured with Bitrex

CAS-No. : 64-17-5 EC-No. : 200-578-6

Name	Product identifier	%
Ethanol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610- 43-xxxx	95.1 – 96.9
Water	-	3.1 – 4.9
denatonium benzoate (Bitrex)	CAS-No.: 3734-33-6 EC-No.: 223-095-2 REACH-no: 01-2120102843- 65-xxxx	0.001 – 1

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#### 3.2. Mixtures

Not applicable

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

#### 4.1. Description of first aid measures

First-aid measures general : Victim conscious with laboured breathing: half-seated. Respiratory arrest: artificial

respiration or oxygen. Seek medical attention immediately. Keep watching the victim. Check the vital functions. . Never give alcohol to drink. Keep the victim calm, avoid physical strain. Never give anything by mouth to an unconscious person. Prevent cooling by covering the

victim (no warming up).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses

: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

: Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

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

# 5.1. Extinguishing media

First-aid measures after ingestion

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Solid water jet ineffective as extinguishing medium. Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : Vapours may form explosive mixture with air. Heat may build pressure, rupturing closed

containers, spreading fire and increasing risk of burns and injuries. Pressurised container:

May burst if heated.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Keep container closed when not in use. This product is not to be used under conditions of poor ventilation. Keep container tightly closed

and away from heat, sparks and flame. Keep cool. Protect from sunlight.

Firefighting instructions : Eliminate all ignition sources if safe to do so. Do not enter fire area without proper protective equipment, including respiratory protection. Keep people away. Isolate the area where it

burns and do not stand

unnecessary entrance. Use water spray around containers that have been exposed to fire and put it on the fire

cool the affected area until the fire is extinguished and the danger of re-ignition has passed.

Fight fire from protected place or at a safe distance. Consider using

unmanned water cannons. Immediately remove all personnel from the area upon detection the safety valve or discoloration of the container. Burning liquids can be extinguished

by diluting with water. Do not use a direct water jet. This can spread the fire. Move container away from fire area, if this can be done without danger. Burning liquids may be removed with running water to protect personnel and damage to minimize property. Take account of environmentally hazardous firefighting water.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

breating apparatus. Complete protective disting.

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

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : If leakage cannot be stopped, evacuate the area. Ensure adequate ventilation.

Avoid breathing vapors / spray and contact with skin and eyes. Not spilled material touch or walk in. Eliminate all sources of ignition. Keep away from heat, sparks and open fire. Wear protective clothing as described in Section 8 of this

Safety Data Sheet.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin

and eyes

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams. Stop leak without risks if possible. Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Try to reduce evaporation. Provide adequate ventilation.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

#### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: ignition sources. oxidizing agents. (strong) acids.

(strong) bases.

#### 7.3. Specific end use(s)

No additional information available

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

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

# 8.1.4. DNEL and PNEC

Ethanol 96% denatured with Bitrex (64-17-5)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	950 mg/m³	
Long-term - local effects, inhalation	1900 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	87 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	114 mg/m³	
Long-term - systemic effects, dermal	206 mg/kg bodyweight/day	
Long-term - local effects, inhalation	950 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.96 mg/l	
PNEC aqua (marine water)	0.79 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	3.6 mg/kg dwt	
PNEC sediment (marine water)	2.9 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.38 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	580 mg/l	

# 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

# 8.2.1. Appropriate engineering controls

# Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

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#### Personal protective equipment symbol(s):









#### 8.2.2.1. Eye and face protection

# Eye protection:

Safety glasses

Eye protection			
Type Field of application Characteristics Standard			Standard
Safety glasses		With side shields	EN 166

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear fire/flame resistant/retardant clothing.

#### Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Butyl rubber	6 (> 480 minutes)	0.5		EN ISO 374
Reusable gloves	Fluoroelastomer (FKM)	6 (> 480 minutes)	0.4		EN ISO 374

#### Other skin protection

#### Materials for protective clothing:

Excellent resistance: Butyl rubber. Less resistance: Chloroprene rubber

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Wear gas mask with filter type A if conc. in air > exposure limit

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

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

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Colourless. Appearance : Clear liquid.

Odour : Alcohol odour. Pleasant odour.

Odour threshold : 100 ppm 188 mg/m³

Melting point : -144 °C
Freezing point : Not available
Boiling point : 78.2 °C
Flammability : Not applicable

Explosive properties : Vapours can form explosive mixtures with air.

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Oxidising properties : the study does not need to be conducted because there are no chemical groups present in

the molecule which are associated with oxidising properties and hence, the classification

procedure does not need to be applied.

**Explosive limits** Not available Lower explosion limit 3.3 vol % Upper explosion limit 15 vol % Flash point 12 °C Auto-ignition temperature 363 °C Decomposition temperature : Not available рΗ : 6 – 9 pH solution : 10 g/l Viscosity, kinematic : 1.516 mm<sup>2</sup>/s

Solubility : Soluble in water. Soluble in acetone. Soluble in ether. Soluble in chloroform. Soluble in

oils/fats. Soluble in methanol. Soluble in acids.

Water: Full

· 1 19 mPa·s

Partition coefficient n-octanol/water (Log Kow) : Not available
Partition coefficient n-octanol/water (Log Pow) : 0.35
Vapour pressure : 59 hPa
Vapour pressure at 50°C : 78.7 hPa
Critical pressure : 63840 hPa

Density : 0.785 g/cm³ @ 25 °C

Relative density : 0.79
Relative vapour density at 20°C : 1.043
Particle characteristics : Not applicable

#### 9.2. Other information

Viscosity, dynamic

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : 2.4
Relative evaporation rate (ether=1) : 8.3
VOC content : 785 g/l

Other properties : Gas/vapour heavier than air at 20°C,Clear,Hygroscopic,Volatile

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Highly flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

Oxidizing agent.

# 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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# SECTION 11: Toxicological information

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11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			
	Not classified		
Acute toxicity (dermal) :	Not classified		
	Not classified		
Ethanol 96% denatured with Bitrex (64-17-5)			
LD50 oral rat	10740 mg/kg		
LD50 dermal rabbit	16000 mg/kg		
Ethanol (64-17-5)			
LD50 oral rat	10470 mg/kg		
LD50 dermal rabbit	17100 mg/kg		
LC50 Inhalation - Rat (Vapours)	124.7 mg/l/4h		
denatonium benzoate (Bitrex) (3734-33-6)			
LD50 oral rat	584 mg/kg		
LD50 dermal rabbit	> 2000 mg/kg		
Skin corrosion/irritation :	Not classified pH: 6 – 9		
Ethanol (64-17-5)			
рН	7		
denatonium benzoate (Bitrex) (3734-33-6)			
рН	6.5 – 7.5		
Water			
pH	7 (7 – 8.5)		
Serious eye damage/irritation :	Causes serious eye irritation. pH: 6 – 9		
Ethanol (64-17-5)			
рН	7		
denatonium benzoate (Bitrex) (3734-33-6)			
рН	6.5 – 7.5		
Water			
рН	7 (7 – 8.5)		
. ,	Not classified		
3 ,	Not classified		
	Not classified		
,	Not classified		
STOT-single exposure : STOT-repeated exposure :	Not classified Not classified		
	Not classified  Not classified		
Ethanol 96% denatured with Bitrex (64-17-5)			
Viscosity, kinematic	1.516 mm²/s		
Ethanol (64-17-5)			
Viscosity, kinematic	1.516 mm²/s		

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denatonium benzoate (Bitrex) (3734-33-6)	
Viscosity, kinematic	Not applicable

#### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: Endocrine disrupting properties

The substance has not been identified as having endocrine disrupting properties in accordance with Regulation (EU) 2017/2100 or Regulation 2018/605, nor has it been included in the Candidate List of Substances of Very High Concern under EU REACh Article 59 due to this property.

#### 11.2.2. Other information

No additional information available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

: Not classified

: Not classified

Hazardous to the aquatic environment, short-term Hazardous to the aquatic environment, long-term

(chronic)

Ethanol 96% denatured with Bitrex (64-17-5)		
LC50 - Fish [1]	11200 mg/l Fresh water fish	
EC50 - Crustacea [1]	5012 mg/l Fresh water	
EC50 - Crustacea [2]	857 mg/l Marine water	
EC50 72h - Algae [1]	275 mg/l Fresh water	
EC50 72h - Algae [2]	1900 mg/l Marine water	
Ethanol (64-17-5)		
LC50 - Fish [1]	14200 mg/l	
EC50 - Crustacea [1]	5012 mg/l	
EC50 72h - Algae [1]	275 mg/l	
denatonium benzoate (Bitrex) (3734-33-6)		
LC50 - Fish [1]	1000 mg/l	
EC50 - Crustacea [1]	13 mg/l	

# 12.2. Persistence and degradability

Ethanol 96% denatured with Bitrex (64-17-5)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.	
Chemical oxygen demand (COD)	1.7 g O <sub>2</sub> /g substance	
ThOD	2.1 g O <sub>2</sub> /g substance	
Biodegradation	75 % in 20 days	
Ethanol (64-17-5)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.	

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Ethanol (64-17-5)		
Chemical oxygen demand (COD)	1.7 g O₂/g substance	
ThOD	2.1 g O <sub>2</sub> /g substance	
Biodegradation	60 % in 5 days	
denatonium benzoate (Bitrex) (3734-33-6)		
Persistence and degradability	Biodegradability in water: no data available. No (test)data on mobility of the substance available.	

# 12.3. Bioaccumulative potential

Ethanol 96% denatured with Bitrex (64-17-5)		
Partition coefficient n-octanol/water (Log Pow)	0.35	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Ethanol (64-17-5)		
Partition coefficient n-octanol/water (Log Pow)	0.35	
denatonium benzoate (Bitrex) (3734-33-6)		
Partition coefficient n-octanol/water (Log Pow) 1.78		
Partition coefficient n-octanol/water (Log Kow)	0.9	

# 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

#### Ethanol 96% denatured with Bitrex (64-17-5)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Component	
Ethanol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
denatonium benzoate (Bitrex) (3734-33-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Water	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by : See 2.3 and 11.2. endocrine disrupting properties

# 12.7. Other adverse effects

Additional information : No other effects known. Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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Product/Packaging disposal recommendations : Beware of residues or vapours which remain in the drums. Do not burn empty packaging.

Do not cut using a blowtorch.

Additional information : Flammable vapours may accumulate in the container.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			'
UN 1987	UN 1987	UN 1987	UN 1987	UN 1987
14.2. UN proper shippin	g name			
ALCOHOLS, N.O.S. (Ethanol, Denatonium Benzoate)	ALCOHOLS, N.O.S. (Ethanol, Denatonium Benzoate)	Alcohols, n.o.s. (Ethanol, Denatonium Benzoate)	ALCOHOLS, N.O.S. (Ethanol, Denatonium Benzoate)	ALCOHOLS, N.O.S. (Ethanol, Denatonium Benzoate)
Transport document descr	ription			
UN 1987 ALCOHOLS, N.O.S. (Ethanol, Denatonium Benzoate), 3, II, (D/E)	UN 1987 ALCOHOLS, N.O.S. (Ethanol, Denatonium Benzoate), 3, II	UN 1987 Alcohols, n.o.s. (Ethanol, Denatonium Benzoate), 3, II	UN 1987 ALCOHOLS, N.O.S. (Ethanol, Denatonium Benzoate), 3, II	UN 1987 ALCOHOLS, N.O.S. (Ethanol, Denatonium Benzoate), 3, II
14.3. Transport hazard	class(es)			
3	3	3	3	3
3	3	3	3	3
14.4. Packing group	,			
II	II	II	II	II
14.5. Environmental haz	zards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information	on available		1	ı

#### 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : F1

Special provisions (ADR) : 274, 601, 640D

Limited quantities (ADR) : 11

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7

Portable tank and bulk container special provisions : TP1, TP8, TP28

(ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation (ADR) : S2, S20
Hazard identification number (Kemler No.) : 33

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Orange plates : 33

1987

Tunnel restriction code (ADR) : D/E EAC code : •3YE

Transport by sea

Special provisions (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1, TP8, TP28

 EmS-No. (Fire)
 : F-E

 EmS-No. (Spillage)
 : S-D

 Stowage category (IMDG)
 : B

Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 353 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A3, A180 ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 274, 601, 640D

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : F1

Special provisions (RID) : 274, 601, 640D

Limited quantities (RID) : 1L Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T7

Portable tank and bulk container special provisions : TP1, TP8, TP28

(RID)

Tank codes for RID tanks (RID): LGBFTransport category (RID): 2Colis express (express parcels) (RID): CE7Hazard identification number (RID): 33

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	Ethanol 96% denatured with Bitrex ; Ethanol
3(b)	Ethanol 96% denatured with Bitrex ; Ethanol
40.	Ethanol 96% denatured with Bitrex ; Ethanol

#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

# **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

#### VOC Directive (2004/42)

VOC content : 785 g/l

# **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

#### Germany

: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 96). Water hazard class (WGK)

Hazardous Incident Ordinance (12. BlmSchV) Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

**Netherlands** 

ABM category : A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic

: Ethanol 96% denatured with Bitrex

environment

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

: Ethanol 96% denatured with Bitrex : The substance is not listed

is listed

is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding

01/05/2023 (Revision date) EN (English) 13/16

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SZW-lijst van reprotoxische stoffen – : Ethanol 96% denatured with Bitrex is listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : Ethanol 96% denatured with Bitrex is listed

**Denmark** 

Class for fire hazard : Class I-1 Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids

must be followed

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
	Adverse health effects caused by endocrine disrupting properties	Added	
	Supersedes	Added	
	Revision date	Added	
1.1	Chemical structure	Added	
1.1	Name	Modified	
1.2	Use of the substance/mixture	Modified	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures general	Added	
4.1	First-aid measures after eye contact	Modified	
5.1	Unsuitable extinguishing media	Added	
5.2	Explosion hazard	Added	
5.3	Precautionary measures fire	Added	
5.3	Firefighting instructions	Added	
6.1	Protective equipment	Added	
6.1	General measures	Added	
6.2	Environmental precautions	Modified	
6.3	For containment	Added	
6.4	Reference to other sections (8, 13)	Modified	
7.2	Heat and ignition sources	Added	
7.2	Information on mixed storage	Added	
8.2	Personal protective equipment	Added	
8.2	Skin and body protection	Modified	
9.1	Upper explosive limit (UEL)	Modified	
9.1	Flash point	Modified	
12.3	Bioaccumulative potential	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	

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Abbreviations and ac	ronyms:
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
SDS	Safety Data Sheet
voc	Volatile Organic Compounds
WGK	Water Hazard Class
vPvB	Very Persistent and Very Bioaccumulative

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Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.