

Safety Data Sheet

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

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

1.1. Product identifier

Product form : Mixture

Product name Aerospray® TB Reagent C, Auramine/Rhodamine (mod)

Product code SS-061CAR or SS-061CAR-EU

Product group Trade product

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only Use of the substance/mixture : Laboratory chemical

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ELITechGroup Inc. 370 West 1700 South US-84321 Logan, UT - Cache USA

T+1 (435) 752-6011 - F+1 (435) 752-4127

qara_ebs@elitechgroup.com - www.elitechgroup.com

1.4. Emergency telephone number

Emergency number : Contact your distributor or poison control center in your country.

InfoTrac Emergency Response: Calls within the USA, phone: 1-800-535-5053. Calls outside

the USA, phone: +1 352-323-3500 (call collect)

Customer ID: #90104 (NOTE: this number is required when a customer calls into either

phone number above).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

H226 Flammable liquids, Category 3 Skin corrosion/irritation, Category 1, Sub-Category 1B H314 H341 Germ cell mutagenicity, Category 2 Carcinogenicity, Category 2 H351 Specific target organ toxicity - Repeated exposure, Category 2 H373 Hazardous to the aquatic environment - Chronic Hazard, Category 3 H412 Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of causing cancer. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

Safety Data Sheet

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

2.2. Label elements

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

Hazard pictograms (CLP)







GHS05

Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

Danger

ethylene glycol; phenol; 4,4'-carbonimidoylbis(N,N-dimethylaniline) monohydrochloride

H226 - Flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage.

H341 - Suspected of causing genetic defects (if swallowed).

H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.

P233 - Keep container tightly closed.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe mist, spray, vapours. P264 - Wash hands thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P314 - Get medical advice/attention if you feel unwell.

P370+P378 - In case of fire: Use ABC-powder, alcohol resistant foam, BC-powder, carbon

dioxide (CO2), D-powder for extinction.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
ethylene glycol (107-21-1)	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
phenol (108-95-2)	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 mixture does not contain substance(s) 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 at a concentration equal to or greater than 0.1 %

Safety Data Sheet

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethylene glycol substance with a Community workplace exposure limit	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1	5 – 25	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
phenol substance with a Community workplace exposure limit	CAS-No.: 108-95-2 EC-No.: 203-632-7 EC Index-No.: 604-001-00-2	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373 Aquatic Chronic 2, H411
4,4'-carbonimidoylbis(N,N-dimethylaniline) monohydrochloride	CAS-No.: 2465-27-2 EC-No.: 219-567-2	<1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Chronic 2, H411
C.I. Basic Violet 10	CAS-No.: 81-88-9 EC-No.: 201-383-9	< 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
phenol		(1 ≤C < 3) Skin Irrit. 2, H315 (1 ≤C < 3) Eye Irrit. 2, H319 (3 ≤C < 100) Skin Corr. 1B, H314

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

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

and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately

call a POISON CENTER/doctor. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician

immediately.

Safety Data Sheet

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

: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Do not First-aid measures after indestion

induce vomiting. Call a physician immediately.

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

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after skin contact Burns.

Symptoms/effects after eye contact Serious damage to eyes.

Symptoms/effects after ingestion Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media ABC powder. Alcohol-resistant foam. BC powder. Foam. Dry powder. Carbon dioxide.

Water spray, Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

: Flammable liquid and vapour. Fire hazard

Explosion hazard May form flammable/explosive vapour-air mixture.

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

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames.

No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and

no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and

eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

© ELITechGroup Inc. SDS-00038-END.doc EU-EN

4/21

Safety Data Sheet

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

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed Precautions for safe handling

- : Handle empty containers with care because residual vapours are flammable.
- Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment.

Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures : Wash hands thoroughly after handling. Wash contaminated clothing before reuse. 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 : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof electrical/ventilating/lighting

equipment. Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep

container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

ethylene glycol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	52 mg/m³
IOEL TWA [ppm]	20 ppm
IOEL STEL	104 mg/m³
IOEL STEL [ppm]	40 ppm

Safety Data Sheet

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

52 mg/m³ (The word "M" indicates that when exposure exceeds the limit value, irritations appear or a danger of acute intoxication exists. The work process must be designed in such a way that the exposure never exceeds the limit value. When making measurements, the sampling period should be as short as possible in order to be able to make reliable measurements. The result of the measurements is calculated according to the sampling period.)		
20 ppm (The word "M" indicates that when exposure exceeds the limit value, irritations appear or a danger of acute intoxication exists. The work process must be designed in such a way that the exposure never exceeds the limit value. When making measurements, the sampling period should be as short as possible in order to be able to make reliable measurements. The result of the measurements is calculated according to the sampling period.)		
104 mg/m³ (The word "M" indicates that when exposure exceeds the limit value, irritations appear or a danger of acute intoxication exists. The work process must be designed in such a way that the exposure never exceeds the limit value. When making measurements, the sampling period should be as short as possible in order to be able to make reliable measurements. The result of the measurements is calculated according to the sampling period.)		
40 ppm (The word "M" indicates that when exposure exceeds the limit value, irritations appear or a danger of acute intoxication exists. The work process must be designed in such a way that the exposure never exceeds the limit value. When making measurements, the sampling period should be as short as possible in order to be able to make reliable measurements. The result of the measurements is calculated according to the sampling period.)		
France - Occupational Exposure Limits		
52 mg/m³		
20 ppm		
104 mg/m³		
40 ppm		
52 mg/m³ (vapor) 10 mg/m³ (drops)		
20 ppm (vapor) 3.9 ppm (drops)		
104 mg/m³ (vapor)		
40 ppm (vapor)		
United Kingdom - Occupational Exposure Limits		
10 mg/m³ 52 mg/m³		
20 ppm		
104 mg/m³		
40 ppm		

Safety Data Sheet

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

Ethylene glycol ACGIH OEL TWA [ppm] 25 ppm (Vapor fraction) ACGIH OEL STEL 10 mg/m² (Inhalable fraction, Aerosol only) ACGIH OEL STEL [ppm] 50 ppm (Vapor fraction) Remark (ACGIH) URT & eye irr Regulatory reference ACGIH 2023 Phenol (108-95-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 8 mg/m² IOEL TWA [ppm] 2 ppm IOEL STEL [ppm] 4 ppm Belgium - Occupational Exposure Limits IOEL TWA 8 mg/m² OEL TWA [ppm] 2 ppm OEL TWA [ppm] 4 ppm DEL TWA [ppm] 2 ppm OEL TWA [ppm] 4 ppm OEL TWA [ppm] 4 ppm OEL TWA [ppm] 5 ppm OEL STEL 16 mg/m² OEL STEL 16 mg/m² 5 ppm OEL STEL [ppm] 4 ppm OEL STEL (ppm] 5 ppm OEL STEL (ppm] 4 ppm France - Occupational Exposure Limits VME (OEL TWA) (ppm] 2 ppm VME (OEL TWA) (ppm] 2 ppm VME (OEL TWA) [ppm] 4 ppm Netherlands - Occupational Exposure Limits VME (OEL TWA) (ppm] 4 ppm Netherlands - Occupational Exposure Limits VME (OEL TWA) (OEL TWA) (Ppm] 8 mg/m² VME (OEL TWA) (OEL TW	according to the REACH Regulation (EC) 1907/2000 amended by Regulation (EO) 2020/676			
Local name Ethylene glycol ACGIH OEL TWA [ppm] 25 ppm (Vapor fraction) ACGIH OEL STEL 10 mg/m² (Inhalable fraction, Aerosol only) ACGIH OEL STEL [ppm] 50 ppm (Vapor fraction) Remark (ACGIH) URT & eye irr Regulatory reference ACGIH 2023 Phanol (108-95-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 8 mg/m² IOEL TWA [ppm] 2 ppm IOEL STEL [ppm] 4 ppm Belglum - Occupational Exposure Limits Emg/m² CEL TWA [ppm] 2 ppm OEL STEL [ppm] 4 ppm DEL STEL [ppm] 4 ppm OEL STEL [ppm] 4 ppm OEL STEL [ppm] 2 ppm OEL STEL [ppm] 4 ppm VME (OEL TWA) [ppm] 2 ppm VME (OEL TWA) [ppm] 2 ppm VME (OEL TWA) [ppm] 2 ppm VME (OEL TWA) [ppm] 4 ppm Netherlands - Occupational Exposure Limits TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits	ethylene glycol (107-21-1)	ethylene glycol (107-21-1)		
ACGIH OEL TWA [ppm] 25 ppm (Vapor fraction) ACGIH OEL STEL 10 mg/m² (Inhalable fraction, Aerosol only) ACGIH OEL STEL [ppm] 50 ppm (Vapor fraction) Remark (ACGIH) URT 8 eye irr Regulatory reference ACGIH 2023 Phenol (108-95-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 8 mg/m² IOEL TWA [ppm] 2 ppm IOEL STEL 16 mg/m² IOEL STEL 16 mg/m² OEL STEL [ppm] 4 ppm Belgium - Occupational Exposure Limit 8 mg/m² OEL TWA [ppm] 2 ppm OEL STEL 16 mg/m² OEL STEL 16 mg/m² OEL STEL 16 mg/m² OEL STEL 16 mg/m² OEL STEL 17 mg/m² OEL STEL 16 mg/m² OEL STEL 17 mg/m² VME (OEL TWA) ppm] 2 ppm VME (OEL TWA) ppm] 2 ppm VME (OEL TWA) ppm] 4 ppm Notherlands - Occupational Exposure Limits TGG-8u (OEL TWA) 8 mg/m² TGG-8u (OEL TWA) 8 mg/m² TGG-8u (OEL TWA) 17 mg/m² VME TWA (OEL TWA) 19 mg/m² VME TYAL (OEL TWA) 19 mg/m²	USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL STEL ACGIH OEL STEL [ppm] S0 ppm (Vapor fraction) Remark (ACGIH) Regulatory reference ACGIH 2023 phenol (108-95-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 8 mg/m³ OEL TWA [ppm] 2 ppm OEL STEL [ppm] 4 ppm OEL TWA 8 mg/m³ OEL TWA 8 mg/m³ OEL TWA 8 mg/m³ OEL TWA 9 mg/m³ OEL TWA 16 mg/m³ OEL STEL [ppm] 2 ppm OEL STEL [ppm] 4 ppm France - Occupational Exposure Limits VME (OEL TWA) T, 8 mg/m³ TGG-8u (OEL TWA) T, 8 mg/m³ VME TWA (OEL TWA) [ppm] United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [ppm] VME TYA (OEL STEL) [ppm]	Local name	Ethylene glycol		
ACGIH OEL STEL [ppm] 50 ppm (Vapor fraction) Remark (ACGIH) URT & eye irr Regulatory reference ACGIH 2023 phenol (108-95-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 8 mg/m² IOEL TWA [ppm] 2 ppm IOEL STEL 6 fmg/m² OEL STEL [ppm] 4 ppm OEL TWA [ppm] 2 ppm OEL TWA [ppm] 2 ppm OEL TWA [ppm] 3 ppm OEL TWA [ppm] 4 ppm OEL TWA [ppm] 4 ppm OEL TWA [ppm] 5 ppm OEL STEL 6 fmg/m² OEL TWA [ppm] 6 pmg/m² OEL TWA [ppm] 7 pmg/m² OEL TWA [ppm] 8 pmg/m² OEL STEL 8 fmg/m² OEL STEL 8 fmg/m² OEL STEL 9 fmg/m² France - Occupational Exposure Limits VME (OEL TWA) 7.8 mg/m³ VME (OEL TWA) [ppm] 2 ppm VLE (OEL CISTEL) 15.6 mg/m² VLE (OEL CISTEL) [ppm] 4 ppm Notherlands - Occupational Exposure Limits TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m² WEL TWA (OEL TWA) [2] 2 ppm WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) [5pm] 4 ppm	ACGIH OEL TWA [ppm]	25 ppm (Vapor fraction)		
Remark (ACGIH) URT & eye irr Regulatory reference ACGIH 2023 phenol (108-95-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 8 mg/m² IOEL TWA (ppm] 2 ppm IOEL STEL 16 mg/m² IOEL STEL (ppm] 4 ppm Belgium - Occupational Exposure Limits OEL TWA 8 mg/m³ OEL TWA (ppm] 2 ppm OEL STEL (ppm] 4 ppm France - Occupational Exposure Limits 4 ppm France - Occupational Exposure Limits 7.8 mg/m³ VME (OEL TWA) (ppm] 2 ppm VLE (OEL C/STEL) 15.6 mg/m³ VLE (OEL C/STEL) (ppm] 4 ppm Notherlands - Occupational Exposure Limits TGG-8u (OEL TWA) (ppm] 2 ppm United Kingdom - Occupational Exposure Limits TGG-8u (OEL TWA) [7] 7.8 mg/m³ WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) (ppm] 4 ppm	ACGIH OEL STEL	10 mg/m³ (Inhalable fraction, Aerosol only)		
ACGIH 2023 Phenol (108-95-2) EU - Indicative Occupational Exposure Limit (IOEL) Identificative Occupational Exposure Limit (IOEL) Identificative Occupational Exposure Limit (IOEL) Identificative Occupational Exposure Limit (IOEL) Identification	ACGIH OEL STEL [ppm]	50 ppm (Vapor fraction)		
Description 108-95-2 2 10 10 10 10 10 10 1	Remark (ACGIH)	URT & eye irr		
Section Color Co	Regulatory reference	ACGIH 2023		
S	phenol (108-95-2)			
COEL TWA [ppm] 2 ppm COEL STEL 16 mg/m³ COEL STEL [ppm] 4 ppm COEL STEL [ppm] 5 mg/m³ COEL TWA 8 mg/m³ COEL TWA [ppm] 2 ppm COEL STEL 16 mg/m³ COEL STEL 16 mg/m³ COEL STEL [ppm] 4 ppm France - Occupational Exposure Limits COEL TWA ppm] 2 ppm COEL TWA ppm] 2 ppm COEL CYSTEL ppm] 4 ppm COEL CYSTEL ppm] 4 ppm COEL CYSTEL ppm] 4 ppm COEL CYSTEL ppm] 2 ppm COEL CYSTEL ppm] 2 ppm COEL CYSTEL ppm] 2 ppm COEL TWA ppm 3 ppm COEL TWA ppm 4 ppm COEL STEL ppm 4 ppm	EU - Indicative Occupational Exposure Limit (IOEL)			
16 mg/m³	IOEL TWA	8 mg/m³		
A ppm	IOEL TWA [ppm]	2 ppm		
Belgium - Occupational Exposure Limits	IOEL STEL	16 mg/m³		
OEL TWA 8 mg/m³ OEL TWA [ppm] 2 ppm OEL STEL 16 mg/m³ OEL STEL [ppm] 4 ppm France - Occupational Exposure Limits VME (OEL TWA) 7.8 mg/m³ VME (OEL TWA) [ppm] 2 ppm VLE (OEL C/STEL) 15.6 mg/m³ VLE (OEL C/STEL) [ppm] 4 ppm Netherlands - Occupational Exposure Limits TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	IOEL STEL [ppm]	4 ppm		
OEL TWA [ppm] 2 ppm OEL STEL 16 mg/m³ OEL STEL [ppm] 4 ppm France - Occupational Exposure Limits VME (OEL TWA) 7.8 mg/m³ VME (OEL TWA) [ppm] 2 ppm VLE (OEL C/STEL) 15.6 mg/m³ VLE (OEL C/STEL) 15.6 mg/m³ VLE (OEL C/STEL) 4 ppm Netherlands - Occupational Exposure Limits TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	Belgium - Occupational Exposure Limits			
OEL STEL 16 mg/m³ OEL STEL [ppm] 4 ppm France - Occupational Exposure Limits VME (OEL TWA) 7.8 mg/m³ VME (OEL TWA) [ppm] 2 ppm VLE (OEL C/STEL) 15.6 mg/m³ VLE (OEL C/STEL) [ppm] 4 ppm Netherlands - Occupational Exposure Limits TGG-8u (OEL TWA) 8 mg/m³ TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	OEL TWA	8 mg/m³		
A ppm	OEL TWA [ppm]	2 ppm		
France - Occupational Exposure Limits VME (OEL TWA) VME (OEL TWA) [ppm] VLE (OEL C/STEL) 15.6 mg/m³ VLE (OEL C/STEL) [ppm] 4 ppm Netherlands - Occupational Exposure Limits TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	OEL STEL	16 mg/m³		
VME (OEL TWA) 7.8 mg/m³ VME (OEL TWA) [ppm] 2 ppm VLE (OEL C/STEL) 15.6 mg/m³ VLE (OEL C/STEL) [ppm] 4 ppm Netherlands - Occupational Exposure Limits TGG-8u (OEL TWA) 8 mg/m³ 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	OEL STEL [ppm]	4 ppm		
VME (OEL TWA) [ppm] 2 ppm VLE (OEL C/STEL) 15.6 mg/m³ VLE (OEL C/STEL) [ppm] 4 ppm Netherlands - Occupational Exposure Limits TGG-8u (OEL TWA) 8 mg/m³ TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	France - Occupational Exposure Limits			
VLE (OEL C/STEL) [ppm] 4 ppm Netherlands - Occupational Exposure Limits TGG-8u (OEL TWA) 8 mg/m³ TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) [ppm] 4 ppm	VME (OEL TWA)	7.8 mg/m³		
VLE (OEL C/STEL) [ppm] 4 ppm Netherlands - Occupational Exposure Limits TGG-8u (OEL TWA) 8 mg/m³ TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	VME (OEL TWA) [ppm]	2 ppm		
Netherlands - Occupational Exposure Limits TGG-8u (OEL TWA) 8 mg/m³ TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	VLE (OEL C/STEL)	15.6 mg/m³		
TGG-8u (OEL TWA) 8 mg/m³ TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	VLE (OEL C/STEL) [ppm]	4 ppm		
TGG-8u (OEL TWA) [ppm] 2 ppm United Kingdom - Occupational Exposure Limits WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	Netherlands - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1] WEL TWA (OEL TWA) [2] WEL STEL (OEL STEL) [ppm] 7.8 mg/m³ 2 ppm 16 mg/m³ 4 ppm	TGG-8u (OEL TWA)	8 mg/m³		
WEL TWA (OEL TWA) [1] 7.8 mg/m³ WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	TGG-8u (OEL TWA) [ppm]	2 ppm		
WEL TWA (OEL TWA) [2] 2 ppm WEL STEL (OEL STEL) 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	United Kingdom - Occupational Exposure Limits			
WEL STEL (OEL STEL) [ppm] 16 mg/m³ WEL STEL (OEL STEL) [ppm] 4 ppm	WEL TWA (OEL TWA) [1]	7.8 mg/m³		
WEL STEL (OEL STEL) [ppm] 4 ppm	WEL TWA (OEL TWA) [2]	2 ppm		
	WEL STEL (OEL STEL)	16 mg/m³		
USA - ACGIH - Occupational Exposure Limits	WEL STEL (OEL STEL) [ppm]	4 ppm		
	USA - ACGIH - Occupational Exposure Limits			
Local name Phenol	Local name	Phenol		
ACGIH OEL TWA [ppm] 5 ppm	ACGIH OEL TWA [ppm]	5 ppm		
Remark (ACGIH) URT irr; lung dam; CNS impair	Remark (ACGIH)	URT irr; lung dam; CNS impair		

SDS-00038-END.doc

7/21

Safety Data Sheet

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

phenol (108-95-2)		
Regulatory reference	ACGIH 2023	
USA - ACGIH - Biological Exposure Indices		
Local name	PHENOL	
BEI	250 mg/g creatinine Parameter: Phenol - Medium: urine - Sampling time: End of shift - Notations: B, Ns	
Regulatory reference	ACGIH 2023	
C.I. Basic Violet 10 (81-88-9)		
Belgium - Occupational Exposure Limits		
OEL TWA	3 mg/m³ 10 mg/m³	
France - Occupational Exposure Limits		
VME (OEL TWA)	7 mg/m³ 3.5 mg/m³ (La valeur limite concerne la fraction alvéolaire) 4 mg/m³ 0.9 mg/m³ (La valeur limite concerne la fraction alvéolaire)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	10 mg/m³ 4 mg/m³	

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

No additional information available

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:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection:

Release Date: 2023-07-19

Chemical goggles or face shield. Safety glasses

Safety Data Sheet

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

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves. Suitable gloves should be tested to EN 374. The glove material has to be impermeable and resistant to the product/the substance/the preparation. As the product is a preparation of several substances, the resistance and penetration time/breakthrough time of the glove material cannot be calculated/observed in advance and, therefore, has to be checked prior to the application. The following are recommended: materials - natural latex or nitrile; thickness - 4 to 6 mils (0.1 mm - 0.15 mm); minimum breakthrough time - 60 minutes.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Red

Odour Characteristic
Odour threshold Characteristic
Melting point Not available
Freezing point Not available
Boiling point Not available
Boiling point Not available

Flammability : Flammable liquid and vapour.

Explosive limits Not available : Not available Lower explosion limit Upper explosion limit : Not available Flash point : 36 (32 - 38) °C : Not available Auto-ignition temperature Decomposition temperature : Not available Not available pН Viscosity, kinematic Not available

Solubility : Water: No data available

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : Not available Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

Safety Data Sheet

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

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive vapours. Flammable liquid and vapour.

10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates: Corrosive vapours.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

ethylene glycol (107-21-1)		
LD50 oral rat	493.91 mg/kg bodyweight (Estimated value)	
LD50 dermal	> 3500 mg/kg bodyweight (Mouse, Male / female, Experimental value, Dermal)	
phenol (108-95-2)		
LD50 oral rat	650 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	660 mg/kg (Equivalent or similar to OECD 402, 24 h, Rat, Female, Experimental value, Dermal, 7 day(s))	
4,4'-carbonimidoylbis(N,N-dimethylaniline) monohydrochloride (2465-27-2)		
LD50 oral	480 mg/kg (Animal: mouse)	
LD50 dermal	300 mg/kg (Animal: mouse)	
C.I. Basic Violet 10 (81-88-9)		
LD50 oral rat	500 mg/kg (Rat, Oral)	
Skin corrosion/irritation :	Causes severe skin burns.	

Safety Data Sheet

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

ethylene glycol (107-21-1)		
рН	No data available in the literature	
phenol (108-95-2)		
рН	6	
C.I. Basic Violet 10 (81-88-9)		
pH	2 – 3 (1.0 %)	
Serious eye damage/irritation :	Assumed to cause serious eye damage	
ethylene glycol (107-21-1)		
рН	No data available in the literature	
phenol (108-95-2)		
рН	6	
C.I. Basic Violet 10 (81-88-9)		
рН	2 – 3 (1.0 %)	
Respiratory or skin sensitisation :	Not classified	
Additional information :	Based on available data, the classification criteria are not met	
Germ cell mutagenicity :	Suspected of causing genetic defects (if swallowed).	
Carcinogenicity :	Suspected of causing cancer.	
phenol (108-95-2)		
IARC group	3 - Not classifiable	
C.I. Basic Violet 10 (81-88-9)		
IARC group	3 - Not classifiable	
ethylene glycol (107-21-1)		
NOAEL (chronic, oral, animal/male, 2 years)	1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)	
,	Not classified	
Additional information :	Based on available data, the classification criteria are not met	
STOT-single exposure : Additional information :	Not classified Based on available data, the classification criteria are not met	
	May cause damage to organs through prolonged or repeated exposure.	
ethylene glycol (107-21-1)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
phenol (108-95-2)		
LOAEL (dermal, rat/rabbit, 90 days)	260 mg/kg bodyweight Animal: rabbit	
NOAEL (dermal, rat/rabbit, 90 days)	130 mg/kg bodyweight Animal: rabbit	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure (if inhaled, in contact with skin, if swallowed).	
Aspiration hazard : Additional information :	Not classified Based on available data, the classification criteria are not met	

Safety Data Sheet

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

ethylene glycol (107-21-1)	
Viscosity, kinematic	18.86 mm²/s (20 °C)
phenol (108-95-2)	
Viscosity, kinematic	No data available in the literature

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms

: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

: Harmful to aquatic life with long lasting effects. Ecology - general Ecology - water Harmful to aquatic life with long lasting effects.

Not classified

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

ethylene glycol (107-21-1)	
LC50 - Fish [1]	> 72860 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 96h - Algae [1]	3536 mg/l Test organisms (species): other: green algae
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'
phenol (108-95-2)	
LC50 - Fish [1]	8.9 mg/l (US EPA, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1]	18 (18 – 36) mg/l (48 h; Daphnia pulex)
EC50 72h - Algae [1]	180 mg/l Test organisms (species): Dunaliella tertiolecta
EC50 72h - Algae [2]	217.6 mg/l Test organisms (species): Dunaliella tertiolecta
EC50 96h - Algae [1]	61.1 mg/l (US EPA, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers)
NOEC (chronic)	0.16 mg/l Test organisms (species): Daphnia magna Duration: '16 d'
NOEC chronic fish	0.077 mg/l Test organisms (species): other:Cirrhina mrigala Duration: '60 d'
C.I. Basic Violet 10 (81-88-9)	
LC50 - Fish [1]	217 mg/l (96 h, Salmo gairdneri)
EC50 - Crustacea [1]	22.9 mg/l (48 h, Daphnia magna)

© ELITechGroup Inc. SDS-00038-END.doc EU-EN

Safety Data Sheet

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

12.2. Persistence and degradability

Aerospray® TB Reagent C, Auramine/Rhodamine (mod)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
ethylene glycol (107-21-1)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water. Not established.	
Biochemical oxygen demand (BOD)	0.47 g O₂/g substance	
Chemical oxygen demand (COD)	1.24 g O₂/g substance	
ThOD	1.29 g O₂/g substance	
phenol (108-95-2)		
Persistence and degradability	Biodegradable in the soil. Inhibits biodegradation processes in the soil. Readily biodegradable in water. Readily biodegradable in water in anaerobic conditions.	
Biochemical oxygen demand (BOD)	1.68 g O₂/g substance	
Chemical oxygen demand (COD)	2.28 g O₂/g substance	
ThOD	2.38 g O₂/g substance	
C.I. Basic Violet 10 (81-88-9)		
Persistence and degradability	Not readily biodegradable in water.	

12.3. Bioaccumulative potential

Aerospray® TB Reagent C, Auramine/Rhodamine (mod)		
Bioaccumulative potential	Not established.	
ethylene glycol (107-21-1)		
Partition coefficient n-octanol/water (Log Pow)	-1.36 (Experimental value)	
Bioaccumulative potential	Not bioaccumulative. Not established.	
phenol (108-95-2)		
BCF - Fish [1]	17.5 (OECD 305: Bioconcentration: Flow-Through Fish Test, 3 h, Danio rerio, Flow-through system, Fresh water, Experimental value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	1.47 (Experimental value, Equivalent or similar to OECD 117, 30 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
4,4'-carbonimidoylbis(N,N-dimethylaniline) monohydrochloride (2465-27-2)		
Bioaccumulative potential	No test data of component(s) available.	
C.I. Basic Violet 10 (81-88-9)		
BCF - Fish [1]	< 1.7 (Cyprinus carpio, Test duration: 6 weeks)	
Partition coefficient n-octanol/water (Log Pow)	1.95 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

Safety Data Sheet

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

12.4. Mobility in soil

ethylene glycol (107-21-1)	
Surface tension	48.4 mN/m (20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Highly mobile in soil.
phenol (108-95-2)	
Surface tension	71.3 mN/m (20 °C, 0.118 %)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.15 – 1.86 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.
4,4'-carbonimidoylbis(N,N-dimethylaniline) monohydrochloride (2465-27-2)	
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Results of PBT and vPvB assessment

Component	
ethylene glycol (107-21-1)	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
phenol (108-95-2)	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

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

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

Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local,

regional, national and/or international regulation.

Additional information

: Handle empty containers with care because residual vapours are flammable. Flammable

vapours may accumulate in the container.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number or ID number

UN-No. (ADR) : UN 1170

Safety Data Sheet

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

UN-No. (IMDG)	:	UN 1170
UN-No. (IATA)	:	UN 1170
UN-No. (ADN)	:	UN 1170
UN-No. (RID)	:	UN 1170

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Proper Shipping Name (IMDG) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Proper Shipping Name (IATA) : Ethanol solution

Proper Shipping Name (ADN) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Proper Shipping Name (RID) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Transport document description (ADR)

: UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III, (D/E)

Transport document description (IMDG)

: UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III

Transport document description (IATA) : UN 1170 Ethanol solution, 3, III

Transport document description (ADN)

: UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III

Transport document description (RID)

: UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3



ADN

Transport hazard class(es) (ADN) : 3
Danger labels (ADN) : 3



RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3

Safety Data Sheet

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



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 144, 601
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T2
Portable tank and bulk container special provisions : TP1

(ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2
Hazard identification number (Kemler No.) : 30

Orange plates

30 1170

Tunnel restriction code (ADR) : D/E EAC code : •2YE

Transport by sea

Special provisions (IMDG) : 144, 223 Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 Packing instructions (IMDG) P001, LP01 IBC packing instructions (IMDG) IBC03 T2 Tank instructions (IMDG) Tank special provisions (IMDG) TP1 F-E EmS-No. (Fire) : S-D EmS-No. (Spillage) Stowage category (IMDG) : A

Properties and observations (IMDG) : Colourless, volatile liquids.Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to

19% Miscible with water.

Safety Data Sheet

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

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L
PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L

Special provisions (IATA) : A3, A58, A180

ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 144, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1
Special provisions (RID) : 144, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T2
Portable tank and bulk container special provisions : TP1

(RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Safety Data Sheet

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

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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 15	Diseases caused by aromatic amines, their salts and derivatives, especially hydroxylated, halogenated, nitrated, nitrosated and sulphonated
RG 15 BIS	Allergic mechanism disorders caused by aromatic amines, their salts, their derivatives, especially hydroxylated, halogenated, nitrated, nitrosated, sulphonated and products containing them in the free state
RG 15 TER	Bladder proliferative lesions caused by the following aromatic amines and their salts: 4-aminobiphenyl and salts (xenylamine); 4,4'-diaminobiphenyl and salts (benzidine); 2-naphthylamine and salts; 4,4'-methylene bis (2-chloroaniline) and salts (MBOCA); 3,3'-dimethoxybenzidine and salts (o-dianisidine); 3,3'-dimethylbenzidine and salts (o-tolidine); 2-methylaniline and salts (o-toluidine); 4-chloro-2-methylaniline and salts (p-chloro-o-toluidine); auramine (technical quality); following dyes derived from benzidine: CI direct black 38, CI direct blue 6, CI direct brown 95.
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

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

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

Netherlands

SZW list of carcinogenic substances : None of the components are listed SZW list of mutagens : None of the components are listed SZW list of reprotoxic substances – Breastfeeding : None of the components are listed SZW list of reprotoxic substances – Fertility : None of the components are listed SZW list of reprotoxic substances – Development : None of the components are listed

Denmark

Class for fire hazard : Class II-1 Store unit : 5 liter

Classification remarks : R10 <H226;H314;H341;H351;H373;H412>; Emergency management guidelines for the

storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Safety Data Sheet

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

SECTION 16: Other information

Abbreviations and acr	Abbreviations and acronyms:	
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)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
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	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	

Safety Data Sheet

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

Abbreviations and acronyms:	
ED	Endocrine disrupting properties

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 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.

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Muta. 2	Germ cell mutagenicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

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.

Safety Data Sheet

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

Reason for change: updating to latest format.