

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

Product form	: Mixture
Product name	: Aerospray® Gram Reagent A, Decolorizer with Acetone and Safranine
Product code	: SS-041AA, SS-041AA-EU, or SS-141A diluted with 2-propanol and acetone
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	: Staining reagent
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 sa	afatu data shoot
1.5. Details of the supplier of the sa	

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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]		
Flammable liquids, Category 2	H225	
Serious eye damage/eye irritation, Category 2	H319	
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	
Full text of H- and EUH-statements: see section 16		
Adverse physicochemical, human health and environmental effects		
Highly flammable liquid and vapour. May cause drowsiness or dizziness. 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 GHS07
Signal word (CLP)	: Danger
Contains	: 2-propanol; acetone
Hazard statements (CLP)	H225 - Highly flammable liquid and vapour.
	H319 - Causes serious eye irritation.
	H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP)	P210 - Keep away from hot surfaces, heat, open flames, sparks. – No smoking.
	P233 - Keep container tightly closed.
	P261 - Avoid breathing mist, spray, vapours.
	P264 - Wash hands thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear protective gloves, protective clothing, eye protection, face protection.
	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.
	P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P370+P378 - In case of fire: Use ABC-powder, alcohol resistant foam, BC-powder, carbon
	dioxide (CO2), dry extinguishing powder for extinction.
	P403+P235 - Store in a well-ventilated place. Keep cool.
	P405 - Store locked up.
	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	
1H-imidazole (288-32-4)	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
2-propanol (67-63-0)	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
acetone (67-64-1)	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

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 %

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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]
2-propanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0	60 – 90	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
acetone substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8	10 – 40	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
1H-imidazole	CAS-No.: 288-32-4 EC-No.: 206-019-2 EC Index-No.: 613-319-00-0	< 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360

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	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a poison center or a doctor if you feel unwell.
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. Call a POISON CENTER/doctor if you feel unwell.
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. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after eye contact	 May cause drowsiness or dizziness. May cause drowsiness or dizziness. Causes serious eye irritation. Eye irritation.
4.3. Indication of any immediate medica	I attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	 ABC powder. Alcohol-resistant foam. BC-powder. Sand. Water spray. Dry powder. Foam. Carbon dioxide. Do not use a heavy water stream. 	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture. Toxic fumes may be released. 	
5.3. Advice for firefighters		
Firefighting instructions Protection during firefighting	 Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. 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 equipm	ent 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. Avoid breathing 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	

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

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.

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SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed Precautions for safe handling Hygiene measures	 Handle empty containers with care because residual vapours are flammable. 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. 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. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wash hands thoroughly after handling. 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 Storage conditions	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Keep in fireproof place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. 		
Incompatible products Incompatible materials	 Strong bases. Strong acids. 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

2-propanol (67-63-0)		
Belgium - Occupational Exposure Limits		
OEL TWA	500 mg/m³	
OEL TWA [ppm]	200 ppm	
OEL STEL	1000 mg/m³	
OEL STEL [ppm]	400 ppm	
France - Occupational Exposure Limits		
VLE (OEL C/STEL)	980 mg/m³	
VLE (OEL C/STEL) [ppm]	400 ppm	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	999 mg/m³	
WEL TWA (OEL TWA) [2]	400 ppm	
WEL STEL (OEL STEL)	1250 mg/m³	

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2-propanol (67-63-0)		
VEL STEL (OEL STEL) [ppm] 500 ppm		
USA - ACGIH - Occupational Exposure Limits		
Local name	2-Propanol	
ACGIH OEL TWA [ppm]	200 ppm	
ACGIH OEL STEL [ppm]	400 ppm	
Remark (ACGIH)	Eye & URT irr; CNS impair	
Regulatory reference	ACGIH 2022	
USA - ACGIH - Biological Exposure Indices		
Local name	2-PROPANOL	
BEI	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns	
Regulatory reference	ACGIH 2022	
acetone (67-64-1)		
EU - Indicative Occupational Exposure Limit (IOE	L)	
IOEL TWA	1210 mg/m ³	
IOEL TWA [ppm]	500 ppm	
Belgium - Occupational Exposure Limits	·	
OEL TWA	594 mg/m³	
OEL TWA [ppm]	246 ppm	
OEL STEL	1187 mg/m ³	
OEL STEL [ppm]	492 ppm	
France - Occupational Exposure Limits		
VME (OEL TWA)	1210 mg/m ³	
VME (OEL TWA) [ppm]	500 ppm	
VLE (OEL C/STEL)	2420 mg/m ³	
VLE (OEL C/STEL) [ppm]	1000 ppm	
Netherlands - Occupational Exposure Limits		
TGG-8u (OEL TWA)	1210 mg/m ³	
TGG-8u (OEL TWA) [ppm]	500 ppm	
TGG-15min (OEL STEL)	2420 mg/m ³	
TGG-15min (OEL STEL) [ppm]	1002 ppm	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	1210 mg/m ³	
WEL TWA (OEL TWA) [2]	500 ppm	
WEL STEL (OEL STEL)	3620 mg/m ³	
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acetone (67-64-1)		
WEL STEL (OEL STEL) [ppm] 1500 ppm		
USA - ACGIH - Occupational Exposure Limits		
Local name	Acetone	
ACGIH OEL TWA [ppm]	250 ppm	
ACGIH OEL STEL [ppm]	500 ppm	
Remark (ACGIH)	eye irr; CNS impair; BEI	
Regulatory reference	ACGIH 2022	
USA - ACGIH - Biological Exposure Indices		
Local name	ACETONE	
BEI	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift - Notations: Ns	
Regulatory reference	ACGIH 2022	

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:

Safety glasses. Gloves. Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

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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:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

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	: Colourless
Odour	: Characteristic
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 62.2 °C
Flammability	: Highly flammable liquid and vapour.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: -10.6 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: 8.5 (8.3 – 8.7)
Viscosity, kinematic	: Not available
Solubility	: Water: Not applicable
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0.7877 g/l
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

9.2.2. Other safety characteristics

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

Highly 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. Avoid contact with hot surfaces. Heat. 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.

SECTION 11: Toxicological information		
11.1. Information on hazard class	es as defined in Regulation (EC) No 1272/2008	
Acute toxicity (oral): Not classifiedAcute toxicity (dermal): Not classifiedAcute toxicity (inhalation): Not classified		
1H-imidazole (288-32-4)		
LD50 oral rat	≈ 970 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
2-propanol (67-63-0)		
LD50 oral rat	5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	16400 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat [ppm]	> 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))	
acetone (67-64-1)		
LD50 oral rat	5800 mg/kg bodyweight Animal: rat, Animal sex: female	
LD50 dermal rabbit	> 15800 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat	76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4	
Skin corrosion/irritation	: Not classified pH: 8.5 (8.3 – 8.7)	
Additional information	: Based on available data, the classification criteria are not met	

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1H-imidazole (288-32-4)	
рН	10.5 (7 %)
2-propanol (67-63-0)	
рН	No data available in the literature
acetone (67-64-1)	
рН	5 – 6 (20 °C)
Serious eye damage/irritation	: Causes serious eye irritation. pH: 8.5 (8.3 – 8.7)
1H-imidazole (288-32-4)	pri. 0.0 (0.5 – 0.7)
pH	10.5 (7 %)
2-propanol (67-63-0)	
pH	No data available in the literature
acetone (67-64-1)	1
pH	5 – 6 (20 °C)
Respiratory or skin sensitisation Additional information Germ cell mutagenicity Additional information Carcinogenicity Additional information	 Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met
2-propanol (67-63-0)	
IARC group	3 - Not classifiable
Reproductive toxicity Additional information	Not classifiedBased on available data, the classification criteria are not met
acetone (67-64-1)	
LOAEL (animal/female, F0/P)	11298 mg/kg bodyweight Animal: mouse, Animal sex: female
NOAEL (animal/male, F0/P)	900 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Generation not specified (migrated information)
STOT-single exposure Additional information	May cause drowsiness or dizziness.May cause drowsiness or dizziness.
2-propanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure Additional information	Not classifiedBased on available data, the classification criteria are not met
1H-imidazole (288-32-4)	
NOAEL (oral, rat, 90 days)	60 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents)

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Aspiration hazard	Not classified		
Additional information :	Based on available data, the classification criteria are not met		
1H-imidazole (288-32-4)			
Viscosity, kinematic	No data available in the literature		
2-propanol (67-63-0)			
Viscosity, kinematic	No data available in the literature		
acetone (67-64-1)			
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	:	Based on available data, the classification criteria are not met
symptoms		

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long- effects in the environment. Hazardous to the aquatic environment, short-term : Not classified	
(acute) Hazardous to the aquatic environment, long–term (chronic)	: Not classified
1H-imidazole (288-32-4)	
LC50 - Fish [1]	283.6 mg/l (48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	341.5 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	133 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	133 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
2-propanol (67-63-0)	
LC50 - Fish [1]	9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow- through system, Fresh water, Experimental value, Lethal)
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	10000 mg/l (48 h; Daphnia magna)
acetone (67-64-1)	
LC50 - Fish [1]	6210 – 8120 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow- through system, Fresh water, Experimental value, Measured concentration)
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acetone (67-64-1)	
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

Aerospray® Gram Reagent A, Decolorizer with Acetone and Safranine		
Persistence and degradability	Not established.	
1H-imidazole (288-32-4)		
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.	
2-propanol (67-63-0)		
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.19 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.23 g O ₂ /g substance	
ThOD	2.4 g O ₂ /g substance	
acetone (67-64-1)		
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance	
ThOD	2.2 g O ₂ /g substance	

12.3. Bioaccumulative potential

Aerospray® Gram Reagent A, Decolorizer with Acetone and Safranine		
Bioaccumulative potential	Not established.	
1H-imidazole (288-32-4)		
Partition coefficient n-octanol/water (Log Pow)	-0.02 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)	
Bioaccumulative potential	Not bioaccumulative.	
2-propanol (67-63-0)		
Partition coefficient n-octanol/water (Log Pow)	0.05 (Weight of evidence approach, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
acetone (67-64-1)		
BCF - Fish [1]	0.69 (Pisces, Literature study)	
Partition coefficient n-octanol/water (Log Pow)	-0.23 (Test data)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

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12.4. Mobility in soil		
1H-imidazole (288-32-4)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.36 – 2.32 (log Koc, Calculated value)	
Ecology - soil	Low potential for adsorption in soil.	
2-propanol (67-63-0)		
Surface tension	No data available (test not performed)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	
acetone (67-64-1)		
Surface tension	23.3 mN/m (20 °C)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	

12.5. Results of PBT and vPvB assessment

Component	
1H-imidazole (288-32-4)	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
2-propanol (67-63-0)	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
acetone (67-64-1)	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

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information

: Avoid release to the environment.

SECTION 13: Disposal consideration	s	
13.1. Waste treatment methods		
Waste treatment methods Product/Packaging disposal recommendations	 Dispose of contents/container in accordance with licensed Dispose in a safe manner in accordance with local/national contents/container to hazardous or special waste collection regional, national and/or international regulation. 	al regulations. Dispose of
Additional information	: Handle empty containers with care because residual vapor vapours may accumulate in the container.	ours are flammable. Flammable
Ecology - waste materials	: Avoid release to the environment.	
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SECTION 14: Transport information

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

14.1. UN number or ID number

UN-No. (ADR)	: UN 1993
UN-No. (IMDG)	: UN 1993
UN-No. (IATA)	: UN 1993
UN-No. (ADN)	: UN 1993
UN-No. (RID)	: UN 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, N.O.S. (Acetone, Isopropanol)
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S. (Acetone, Isopropanol)
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s. (Acetone, Isopropanol)
Proper Shipping Name (ADN)	: FLAMMABLE LIQUID, N.O.S. (Acetone, Isopropanol)
Proper Shipping Name (RID)	: FLAMMABLE LIQUID, N.O.S. (Acetone, Isopropanol)
Transport document description (ADR)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (Acetone, Isopropanol), 3, II, (D/E)
Transport document description (IMDG)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (Acetone, Isopropanol), 3, II
Transport document description (IATA)	: UN 1993 Flammable liquid, n.o.s. (Acetone, Isopropanol), 3, II
Transport document description (ADN)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (Acetone, Isopropanol), 3, II
Transport document description (RID)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (Acetone, Isopropanol), 3, II

14.3. Transport hazard class(es)

ADR

IMDG

Danger labels (IMDG)

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





: 3

: 3 :

: 3 : 3

: 3 : 3

:



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

ADN

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

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according to the TEP		
RID Fransport hazard class(es) (RID) Danger labels (RID)		
14.4. Packing group	•	
acking group (ADR)	: 11	
Packing group (IMDG)	: 11	
Packing group (IATA)	: 11	
Packing group (ADN)	: 11	
acking group (RID)	: 11	
4.5. Environmental hazards		
angerous for the environment	: No	
larine pollutant	: No	
Other information	: No supplementary information available	
14.6. Special precautions for user		
Overland transport		
Classification code (ADR) Special provisions (ADR)	: F1 : 274 601 640C	
imited quantities (ADR)	: 274, 601, 640C : 1I	
Excepted quantities (ADR)	: E2	
Packing instructions (ADR)	: P001	
lixed packing provisions (ADR)	: MP19	
Portable tank and bulk container instructions (ADR)		
ortable tank and bulk container special provisions	: TP1, TP8, TP28	
ank code (ADR)	: L1.5BN	
ehicle for tank carriage	: FL	
ransport category (ADR)	: 2	
pecial provisions for carriage - Operation (ADR)	: S2, S20	
lazard identification number (Kemler No.)	: 33	
Drange plates	<u>33</u> 1993	
unnel restriction code (ADR)	: D/E	
AC code	: •3YE	
ransport by sea		
pecial provisions (IMDG)	: 274	
imited quantities (IMDG) Excepted quantities (IMDG)	: 1L : E2	
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Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	: P001 : IBC02 : T7 : TP1, TP28, TP8 : F-E : S-E : B
Air transport PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA)	: E2 : Y341 : 1L : 353 : 5L : 364 : 60L : A3 : 3H
Inland waterway transport Classification code (ADN) Special provisions (ADN) Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN)	: F1 : 274, 61, 64D : 1 L : E2 : T : PP, EX, A : VE01 : 1
Rail transportClassification code (RID)Special provisions (RID)Limited quantities (RID)Excepted quantities (RID)Packing instructions (RID)Mixed packing provisions (RID)Portable tank and bulk container instructions (RID)Portable tank and bulk container special provisions(RID)Tank codes for RID tanks (RID)Transport category (RID)Colis express (express parcels) (RID)Hazard identification number (RID)	 F1 274, 601, 640D 1L E2 P001, IBC02, R001 MP19 T7 TP1, TP8, TP28 LGBF 2 CE7 33

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)

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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)

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 substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors) ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

Name	CAS-No.	Combined	Combined Nomenclature code for mixture without
			constituents which would determine classification under another CN code
Acetone	67-64-1	2914 11 00	ex 3824 99 92

Please see https://ec.europa.eu/home-affairs/system/files/2021-11/list_of_competent_authorities_and_national_contact_points_en.pdf

Drug Precursors Regulation (273/2004)

Contains 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)

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Acetone		67-64-1	2914 11 00	Category 3		Annex I

15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	 WGK 1, Slightly hazardous to water (Classification according to Av 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	
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SZW list of reprotoxic substances – Fertility SZW list of reprotoxic substances – Development	None of the components are listed1H-imidazole is listed	
Denmark		
Classification remarks Danish National Regulations	 Emergency management guidelines for the storage of flammable liquids must be followed Young people below the age of 18 years are not allowed to use the product 	

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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	
ΙΑΤΑ	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	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	

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Abbreviations and acronyms:		
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	
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.
 None.

Other information

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
H225	Highly flammable liquid and vapour.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H360	May damage fertility or the unborn child.	
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

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.

Reason for change: updating to latest format.