

according to Regulation (EC) No. 1907/2006

Revision Number 6

Revision Date 27-Feb-2024

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Description: <u>2,2,6-Trimethyl-1,3-dioxin-4-one, contains up to 6% acetone</u>

 Cat No. :
 A14254

 CAS No
 5394-63-8

 Molecular Formula
 C7 H10 O3

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company

Thermo Fisher (Kandel) GmbH

Erlenbachweg 2, 76870 Kandel, Germany

Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300

Swiss distributor - Fisher Scientific AG Neuhofstrasse 11, CH 4153 Reinach

Tel: +41 (0) 56 618 41 11

https://www.fishersci.ch/ch/en/customer-help-

support/forms/email-us.html

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:

Tox Info Suisse Emergency Number: 145 (24hr)

Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)

Chemtrec (24h) Toll-Free: 0800 564 402 Chemtrec Local: +41-43 508 20 11 (Zurich)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

ALFAAA14254

2,2,6-Trimethyl-1,3-dioxin-4-one, contains up to 6% acetone

Revision Date 27-Feb-2024

Physical hazards

Flammable liquids Category 2 (H225)

Health hazards

Serious Eye Damage/Eye Irritation Category 2 (H319)

Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

2.2. Label elements



Signal Word

Danger

Hazard Statements

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements

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

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

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	CAS No	EC No	Weight %	CLP Classification - Regulation (EC) No 1272/2008
2,2,6-Trimethyl-4H-1,3-dioxin-4-one	5394-63-8	EEC No. 226-403-3	94-99	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)
Acetone	67-64-1	200-662-2	1-6	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336) EUH066

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

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

Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting

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

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Carbon dioxide (CO₂). Powder. Water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Water mist may be used to cool closed containers.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO2).

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Revision Date 27-Feb-2024

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges.

6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep refrigerated. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame.

Technical Rules for Hazardous Substances (TRGS) 510

Storage Class (LGK) (Germany)

Class 3

Switzerland - Storage of hazardous substances Storage class - SC 3

https://www.kvu.ch/de/themen/stoffe-und-produkte https://www.kvu.ch/fr/themes/substances-et-produits https://www.kvu.ch/it/temi/sostanze-e-prodotti

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **UK** - EH40/2005 Work Exposure Limits, Forth edition. Published 2020. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority. **CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

Revision Date 27-Feb-2024

Component	European Union	The United Kingdom	France	Belgium	Spain
Acetone	TWA: 500 ppm (8h)	TWA: 500 ppm	TWA / VME: 500 ppm (8		TWA / VLA-ED: 500
Accione	TWA: 1210 mg/m ³ (8h)	TWA: 1210 mg/m ³	heures), restrictive limit		
	1 VVA. 12 TO HIG/HI ^S (6H)		TWA / VME: 1210		TWA / VLA-ED: 1210
		STEL: 1500 ppm		STEL: 492 ppm 15	
		STEL: 3620 mg/m ³	mg/m³ (8 heures).	minuten	mg/m³ (8 horas)
			restrictive limit	STEL: 1187 mg/m ³ 15	
			STEL / VLCT: 1000	minuten	
			ppm. restrictive limit		
			STEL / VLCT: 2420		
			mg/m ³ . restrictive limit		
Component	Italy	Germany	Portugal	The Netherlands	Finland
Acetone	TWA: 500 ppm 8 ore.	TWA: 500 ppm	STEL: 750 ppm 15	STEL: 2420 mg/m ³ 15	TWA: 500 ppm 8
	Time Weighted Average	TWA: 1200 mg/m ³	minutos	minuten	tunteina
	TWA: 1210 mg/m ³ 8		TWA: 500 ppm 8 horas	TWA: 1210 mg/m ³ 8	TWA: 1200 mg/m ³ 8
	ore. Time Weighted		TWA: 1210 mg/m ³ 8	uren	tunteina
	Average		horas		STEL: 630 ppm 15
					minuutteina
					STEL: 1500 mg/m ³ 15
					minuutteina
	•				•
Component	Austria	Denmark	Switzerland	Poland	Norway
Acetone	MAK-KZGW: 2000 ppm	TWA: 250 ppm 8 timer	STEL: 1000 ppm 15	STEL: 1800 mg/m ³ 15	TWA: 125 ppm 8 timer
	15 Minuten	TWA: 600 mg/m ³ 8 timer		minutach	TWA: 295 mg/m ³ 8 time
	MAK-KZGW: 4800	STEL: 500 ppm 15	STEL: 2400 mg/m ³ 15	TWA: 600 mg/m ³ 8	STEL: 156.25 ppm 15
	mg/m ³ 15 Minuten	minutter	Minuten	godzinach	minutter. value
	MAK-TMW: 500 ppm 8	STEL: 1200 mg/m ³ 15	TWA: 500 ppm 8	G	calculated
	Stunden	minutter	Stunden		STEL: 368.75 mg/m3 15
	MAK-TMW: 1200 mg/m ³		TWA: 1200 mg/m ³ 8		minutter. value
	8 Stunden		Stunden		calculated
	,				
Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Acetone	TWA: 600 mg/m ³	TMA CM 500 nnm 0	TMA. 500 mmm 0 hm	Older and the offer	
	1 VV/A. 000 Hig/III	I IVVA-GVI. SUU PPIII 6	I WA: 500 ppm 8 nr.	Skin-potential for	TWA: 800 mg/m ³ 8
		TWA-GVI: 500 ppm 8 satima.	TWA: 500 ppm 8 hr. TWA: 1210 mg/m ³ 8 hr.		TWA: 800 mg/m³ 8 hodinách.
	STEL: 1400 mg/m ³	satima.	TWA: 1210 mg/m ³ 8 hr.	cutaneous absorption	hodinách.
		satima. TWA-GVI: 1210 mg/m³	TWA: 1210 mg/m ³ 8 hr. STEL: 1500 ppm 15 min	cutaneous absorption TWA: 500 ppm	
		satima.	TWA: 1210 mg/m ³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m ³ 15	cutaneous absorption	hodinách.
		satima. TWA-GVI: 1210 mg/m³	TWA: 1210 mg/m ³ 8 hr. STEL: 1500 ppm 15 min	cutaneous absorption TWA: 500 ppm	hodinách.
Component	STEL : 1400 mg/m ³	satima. TWA-GVI: 1210 mg/m³ 8 satima.	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³	hodinách. Ceiling: 1500 mg/m³
Component Acetone	STEL : 1400 mg/m³	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar	TWA: 1210 mg/m ³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m ³ 15 min	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³	hodinách. Ceiling: 1500 mg/m³
Component Acetone	STEL: 1400 mg/m³ Estonia TWA: 500 ppm 8	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8
	STEL: 1400 mg/m³ Estonia TWA: 500 ppm 8 tundides.	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar	TWA: 1210 mg/m ³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m ³ 15 min	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum.
	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8
	STEL: 1400 mg/m³ Estonia TWA: 500 ppm 8 tundides.	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum.
	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm
	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum.
Acetone	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides.	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³
Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides.	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³
Acetone	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ Luxembourg TWA: 500 ppm 8	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK Malta TWA: 500 ppm	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore
Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides.	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ Luxembourg TWA: 500 ppm 8 Stunden	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore
Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ Luxembourg TWA: 500 ppm 8 Stunden TWA: 1210 mg/m³ 8	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK Malta TWA: 500 ppm	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore
Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD STEL: 1000 ppm	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ Luxembourg TWA: 500 ppm 8 Stunden	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK Malta TWA: 500 ppm	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore
Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ Luxembourg TWA: 500 ppm 8 Stunden TWA: 1210 mg/m³ 8	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK Malta TWA: 500 ppm	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore
Acetone Component Acetone	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm TWA: 1210 mg/m³	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD STEL: 1000 ppm STEL: 2420 mg/m³	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ Luxembourg TWA: 500 ppm 8 Stunden TWA: 1210 mg/m³ 8 Stunden	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK Malta TWA: 500 ppm TWA: 1210 mg/m³	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore TWA: 1210 mg/m³ 8 ore
Component Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm TWA: 1210 mg/m³ Russia	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD STEL: 1000 ppm STEL: 2420 mg/m³ Slovak Republic	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ Luxembourg TWA: 500 ppm 8 Stunden TWA: 1210 mg/m³ 8 Stunden Stunden	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK Malta TWA: 500 ppm TWA: 1210 mg/m³	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore TWA: 1210 mg/m³ 8 ore
Acetone Component Acetone	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm TWA: 1210 mg/m³ Russia TWA: 200 mg/m³ 1763	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD STEL: 1000 ppm STEL: 2420 mg/m³ Slovak Republic TWA: 500 ppm	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ TWA: 500 ppm 8 Stunden TWA: 1210 mg/m³ 8 Stunden Slovenia TWA: 500 ppm 8 urah	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK Malta TWA: 500 ppm TWA: 1210 mg/m³ Sweden Indicative STEL: 500	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore TWA: 1210 mg/m³ 8 ore
Component Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm TWA: 1210 mg/m³ Russia	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD STEL: 1000 ppm STEL: 2420 mg/m³ Slovak Republic	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ TWA: 500 ppm 8 Stunden TWA: 1210 mg/m³ 8 Stunden TWA: 1210 mg/m³ 8 Slovenia TWA: 500 ppm 8 urah TWA: 1210 mg/m³ 8	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK Malta TWA: 500 ppm TWA: 1210 mg/m³ Sweden Indicative STEL: 500 ppm 15 minuter	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore TWA: 1210 mg/m³ 8 ore Turkey TWA: 500 ppm 8 saat TWA: 1210 mg/m³ 8
Component Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm TWA: 1210 mg/m³ Russia TWA: 200 mg/m³ 1763	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD STEL: 1000 ppm STEL: 2420 mg/m³ Slovak Republic TWA: 500 ppm	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ Luxembourg TWA: 500 ppm 8 Stunden TWA: 1210 mg/m³ 8 Stunden Slovenia TWA: 500 ppm 8 urah TWA: 1210 mg/m³ 8 urah	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK Malta TWA: 500 ppm TWA: 1210 mg/m³ Sweden Indicative STEL: 500 ppm 15 minuter Indicative STEL: 1200	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore TWA: 1210 mg/m³ 8 ore
Component Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm TWA: 1210 mg/m³ Russia TWA: 200 mg/m³ 1763	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD STEL: 1000 ppm STEL: 2420 mg/m³ Slovak Republic TWA: 500 ppm	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ TWA: 500 ppm 8 Stunden TWA: 1210 mg/m³ 8 Stunden TWA: 1210 mg/m³ 8 Stunden	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8 órában. AK Malta TWA: 500 ppm TWA: 1210 mg/m³ Sweden Indicative STEL: 500 ppm 15 minuter Indicative STEL: 1200 mg/m³ 15 minuter	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore TWA: 1210 mg/m³ 8 ore Turkey TWA: 500 ppm 8 saat TWA: 500 ppm 8 saat TWA: 500 ppm 8 saat Saat
Component Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm TWA: 1210 mg/m³ Russia TWA: 200 mg/m³ 1763	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD STEL: 1000 ppm STEL: 2420 mg/m³ Slovak Republic TWA: 500 ppm	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ TWA: 500 ppm 8 Stunden TWA: 1210 mg/m³ 8 Stunden TWA: 1210 mg/m³ 8 Stunden	Cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore TWA: 1210 mg/m³ 8 ore Turkey TWA: 500 ppm 8 saat TWA: 500 ppm 8 saat TWA: 500 ppm 8 saat Saat
Component Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm TWA: 1210 mg/m³ Russia TWA: 200 mg/m³ 1763	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD STEL: 1000 ppm STEL: 2420 mg/m³ Slovak Republic TWA: 500 ppm	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ TWA: 1780 mg/m³ TWA: 500 ppm 8 Stunden TWA: 1210 mg/m³ 8 Stunden TWA: 1210 mg/m³ 8 Stunden TWA: 2210 mg/m³ 8 STEL: 2420 mg/m³ 15 minutah STEL: 1000 ppm 15	cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore TWA: 1210 mg/m³ 8 ore Turkey TWA: 500 ppm 8 saat TWA: 1210 mg/m³ 8 saat
Component Acetone Component	Estonia TWA: 500 ppm 8 tundides. TWA: 1210 mg/m³ 8 tundides. Latvia TWA: 500 ppm TWA: 1210 mg/m³ Russia TWA: 200 mg/m³ 1763	satima. TWA-GVI: 1210 mg/m³ 8 satima. Gibraltar TWA: 500 ppm 8 hr TWA: 1210 mg/m³ 8 hr Lithuania TWA: 500 ppm IPRD TWA: 1210 mg/m³ IPRD STEL: 1000 ppm STEL: 2420 mg/m³ Slovak Republic TWA: 500 ppm	TWA: 1210 mg/m³ 8 hr. STEL: 1500 ppm 15 min STEL: 3630 mg/m³ 15 min Greece STEL: 3560 mg/m³ TWA: 1780 mg/m³ TWA: 500 ppm 8 Stunden TWA: 1210 mg/m³ 8 Stunden TWA: 1210 mg/m³ 8 Stunden	Cutaneous absorption TWA: 500 ppm TWA: 1210 mg/m³ Hungary TWA: 1210 mg/m³ 8	hodinách. Ceiling: 1500 mg/m³ Iceland TWA: 250 ppm 8 klukkustundum. TWA: 600 mg/m³ 8 klukkustundum. Ceiling: 500 ppm Ceiling: 1200 mg/m³ Romania TWA: 500 ppm 8 ore TWA: 1210 mg/m³ 8 ore Turkey TWA: 500 ppm 8 saat TWA: 1210 mg/m³ 8 saat

Biological limit values List source(s):

Component	European Union	United Kingdom	France	Spain	Germany
Acetone			Acetone: 100 mg/L urine	Acetone: 50 mg/L urine	Acetone: 80 mg/L urine
			end of shift	end of shift	(end of shift)

2,2,6-Trimethyl-1,3-dioxin-4-one, contains up to 6% acetone

Revision Date 27-Feb-2024

Component	Italy	Finland	Denmark	Bulgaria	Romania
Acetone				Acetone: 80 mg/L urine	Acetone: 50 mg/L urine
				at the end of exposure	end of shift
				or end of work shift	

Component	Gibraltar	Latvia	Slovak Republic	Luxembourg	Turkey
Acetone			Acetone: 80 mg/L urine		
			end of exposure or work		
			shift		

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Component	Acute effects local (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Acetone				DNEL = 186mg/kg
67-64-1 (1-6)				bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Acetone 67-64-1 (1-6)	DNEL = 2420mg/m ³			DNEL = 1210mg/m ³

Predicted No Effect Concentration (PNEC)

See values below.

Component	Fresh water	Fresh water	Water Intermittent	Microorganisms in	Soil (Agriculture)
		sediment		sewage treatment	
Acetone	PNEC = 10.6mg/L	PNEC = 30.4mg/kg	PNEC = 21mg/L	PNEC = 100mg/L	PNEC = 29.5 mg/kg
67-64-1 (1-6)		sediment dw		-	soil dw

Component	Marine water	Marine water sediment	Marine water Intermittent	Food chain	Air
Acetone	PNEC = 1.06mg/L	PNEC = 3.04mg/kg			
67-64-1 (1-6)		sediment dw			

8.2. Exposure controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

2,2,6-Trimethyl-1,3-dioxin-4-one, contains up to 6% acetone

Glove material Breakthrough time Glove thickness EU standard Glove comments

Nitrile rubber See manufacturers - EN 374 (minimum requirement)

Neoprene recommendations

Natural rubber

PVC

Skin and body protection Long sleeved clothing.

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

Revision Date 27-Feb-2024

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: Organic gases and vapours filter Type A Brown conforming to

EN14387

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN

141

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Liquid

Appearance Dark brown

Odor

Odor No information available
No data available
No data available
To 'C / 44.6 °F
No data available
No information available
No information available

Flammability (liquid) Highly flammable On basis of test data

Flammability (solid,gas) Not applicable Liquid

Explosion Limits No data available

Flash Point 14 °C / 57.2 °F Method - No information available

Autoignition Temperature
Decomposition Temperature
pH
Viscosity
No data available
Not applicable
No data available
No data available
Immiscible

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Acetone -0.24

Vapor Pressure

No data available

Density / Specific Gravity1.094 g/cm3@ 20 °CBulk DensityNot applicableLiquidVapor DensityNo data available(Air = 1.0)

Particle characteristics (liquid) Not applicable

2,2,6-Trimethyl-1,3-dioxin-4-one, contains up to 6% acetone

Revision Date 27-Feb-2024

Molecular FormulaC7 H10 O3Molecular Weight142.15

Explosive Properties Vapors may form explosive mixtures with air

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization No information available.
Hazardous Reactions None under normal processing.

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information

(a) acute toxicity;

Oral

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

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,2,6-Trimethyl-4H-1,3-dioxin-4-one	-	LD50 >= 5000 mg/kg (Rabbit)	-
Acetone	5800 mg/kg(Rat)	> 15800 mg/kg (rabbit) > 7400 mg/kg (rat)	76 mg/l, 4 h, (rat)

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

Component	Test method	Test species	Study result
Acetone 67-64-1 (1-6)	Guinea Pig Maximisation Test (GPMT)	guinea pig	non-sensitising

2,2,6-Trimethyl-1,3-dioxin-4-one, contains up to 6% acetone

Revision Date 27-Feb-2024

(e) germ cell mutagenicity; No data available

Component	Test method	Test species	Study result	
Acetone 67-64-1 (1-6)	OECD Test Guideline 471 AMES test	in vivo	negative	
	OECD Test Guideline 476 Mammalian Gene cell mutation	in vitro	negative	

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

Results / Target organs Central nervous system (CNS).

(i) STOT-repeated exposure; No data available

No information available. **Target Organs**

No data available (j) aspiration hazard;

delayed

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting.

11.2. Information on other hazards

Endocrine Disrupting Properties

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

Component	Freshwater Fish	Water Flea	Freshwater Algae
Acetone	Oncorhynchus mykiss: LC50 =	EC50 = 8800 mg/L/48h	NOEC = 430 mg/l (algae; 96 h)
	5540 mg/l 96h	EC50 = 12700 mg/L/48h	
	Alburnus alburnus: LC50 =	EC50 = 12600 mg/L/48h	
	11000 mg/l 96h		
	Leuciscus idus: LC50 = 11300		
	mg/L/48h		
	Salmo gairdneri: LC50 = 6100		
	mg/L/24h		

Component	Microtox	M-Factor
Acetone	EC50 = 14500 mg/L/15 min	

12.2. Persistence and degradability

Dareistanca Immiscible with water

I GISISICIICE	miniscible with water.	
	Component	Degradability
	Acetone 67-64-1 (1-6)	91 % (28 d) (OECD 301 B)

2,2,6-Trimethyl-1,3-dioxin-4-one, contains up to 6% acetone

Revision Date 27-Feb-2024

12.3. Bioaccumulative potential May have some potential to bioaccumulate

Componentlog PowBioconcentration factor (BCF)Acetone-0.240.69 dimensionless

12.4. Mobility in soil Spillage unlikely to penetrate soil The product is insoluble and sinks in water Is not likely

mobile in the environment due its low water solubility.

12.5. Results of PBT and vPvB

assessment

No data available for assessment.

12.6. Endocrine disrupting

properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused

Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives

on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of this container to hazardous or special waste collection point. Empty containers

retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and

empty container away from heat and sources of ignition.

European Waste Catalogue (EWC) According to the European Waste Catalog, Waste Codes are not product specific, but

application specific.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used. Do not flush to sewer. Can be landfilled or incinerated, when in compliance with

local regulations.

Switzerland - Waste Ordinance Disposal should be in accordance with applicable regional, national and local laws and

regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance,

ADWO) SR 814.600

https://www.fedlex.admin.ch/eli/cc/2015/891/en

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number UN1993

14.2. UN proper shipping name Flammable liquid, n.o.s.

Technical Shipping Name (ACETONE)

14.3. Transport hazard class(es) 3 14.4. Packing group II

ADR

14.1. UN number UN1993

14.2. UN proper shipping name Flammable liquid, n.o.s.

Technical Shipping Name (ACETONE)

14.3. Transport hazard class(es) 3 14.4. Packing group II

<u>IATA</u>

14.1. UN number UN1993

14.2. UN proper shipping name Flammable liquid, n.o.s.

Technical Shipping Name (ACETONE)

14.3. Transport hazard class(es) 3 14.4. Packing group II

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required.

14.7. Maritime transport in bulk Not applicable, packaged goods

according to IMO instruments

SECTION 15: REGULATORY INFORMATION

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

International Inventories

X = listed. US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
2,2,6-Trimethyl-4H-1,3-dioxin-4-on	5394-63-8	226-403-3	-	-	X	X	KE-34501	-	-
е									
Acetone	67-64-1	200-662-2	-	-	X	Χ	KE-29367	Х	Х

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
2,2,6-Trimethyl-4H-1,3-dioxin-4-on e	5394-63-8	-	-	-	-	Х	X	X
Acetone	67-64-1	Χ	ACTIVE	Χ	-	Χ	Χ	Χ

Legend: X - Listed '-' - Not Listed KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
2,2,6-Trimethyl-4H-1,3-dioxin-4-one	5394-63-8	-	-	-
Acetone	67-64-1	-	Use restricted. See item 75. (see link for restriction details)	-

REACH links

https://echa.europa.eu/substances-restricted-under-reach

Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
2,2,6-Trimethyl-4H-1,3-dioxi n-4-one	5394-63-8	Not applicable	Not applicable
Acetone	67-64-1	Not applicable	Not applicable

Revision Date 27-Feb-2024

2,2,6-Trimethyl-1,3-dioxin-4-one, contains up to 6% acetone

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

Water endangering class = 1 (self classification)

Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Acetone	WGK1	

Component	France - INRS (Tables of occupational diseases)
Acetone	Tableaux des maladies professionnelles (TMP) - RG 84

Swiss Regulations

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

Component	Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81)	Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC)	Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure
Acetone 67-64-1 (1-6)		Group I	

15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H319 - Causes serious eye irritation

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapor

H336 - May cause drowsiness or dizziness

Legend

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances

Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances

ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances NZIoC - New Zealand Inventory of Chemicals

KECL - Korean Existing and Evaluated Chemical Substances

TWA - Time Weighted Average

WEL - Workplace Exposure Limit **ACGIH** - American Conference of Governmental Industrial Hygienists

IARC - International Agency for Research on Cancer

2,2,6-Trimethyl-1,3-dioxin-4-one, contains up to 6% acetone

Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% **POW** - Partition coefficient Octanol:Water **vPvB** - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road

DNEL - Derived No Effect Level **RPE** - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration **PBT** - Persistent, Bioaccumulative, Toxic

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

Revision Date 27-Feb-2024

MARPOL - International Convention for the Prevention of Pollution from

Ships

ATE - Acute Toxicity Estimate
VOC - (volatile organic compound)

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards
Health Hazards
Calculation method
Environmental hazards
Cn basis of test data
Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Prepared By Health, Safety and Environmental Department

Revision Date 27-Feb-2024

Revision Summary New emergency telephone response service provider.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No. 1907/2006

For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2, Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and Preparations).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet