

according to Regulation (EC) No. 1907/2006

Creation Date 06-Aug-2009 Revision Date 06-Dec-2024 **Revision Number** 13

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

1.1. Product identifier

Product Description: Potassium tert-butoxide, 20 wt.% solution in THF

364990000; 364990500 Cat No.: Potassium tert-butvlate **Synonyms**

Molecular Formula C4 H9 K O

Unique Formula Identifier (UFI) KY2T-MT0T-KW0F-A3JH

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

Recommended Use Laboratory chemicals. No Information available Uses advised against

1.3. Details of the supplier of the safety data sheet

Company

EU entity/business name Thermo Fisher Scientific

Janssen Pharmaceuticalaan 3a, 2440 Geel, Belgium

UK entity/business name Fisher Scientific UK Bishop Meadow Road,

Loughborough, Leicestershire LE11 5RG, United Kingdom

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

Tel: +41 (0) 56 618 41 11 e-mail - infoch@thermofisher.com

begel.sdsdesk@thermofisher.com E-mail address

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)

Poison Centre - Emergency information services

Ireland: National Poisons Information Centre (NPIC) -

01 809 2166 (8am-10pm, 7 days a week)

Malta: +356 2395 2000 Cyprus: +357 2240 5611

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Flammable liquids Category 2 (H225)

Health hazards

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Carcinogenicity

Carcinogenicity - (single exposure)

Category 1 (H318)

Category 2 (H351)

Category 3 (H335) (H336)

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

H314 - Causes severe skin burns and eve damage

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

EUH014 - Reacts violently with water

EUH019 - May form explosive peroxides

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

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

P310 - Immediately call a POISON CENTER or doctor/physician

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

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

2.3. Other hazards

Reacts violently with water

Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

Section 3: Composition/information on ingredients

3.2. Mixtures

Component	CAS No	EC No	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Tetrahydrofuran	109-99-9	203-726-8	80	Flam. Liq. 2 (H225) Acute Tox. 4 (H302) Eye Irrit. 2 (H319) STOT SE 3 (H335) STOT SE 3 (H336) Carc. 2 (H351) (EUH019)
2-Propanol, 2-methyl-, potassium salt	865-47-4	EEC No. 212-740-3	20	Flam. Sol. 1 (H228) Self-heat. 2 (H252) Skin Corr. 1A (H314) Eye Dam. 1 (H318) (EUH014)

Component	Specific concentration limits (SCL's)	M-Factor	Component notes
Tetrahydrofuran	Acute Tox. 4 :: C>82.5% Eye Irrit. 2 :: C>=25% STOT SE 3 :: C>=25%	-	-

Full text of Hazard Statements: see section 16

Section 4: First aid measures

4.1. Description of first aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

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

Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing and gloves, including the inside, before re-use. Call a physician

immediately.

Ingestion Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an

unconscious person. Call a physician immediately.

Inhalation If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

medical device. Call a physician immediately.

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

Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Causes central nervous system depression

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

Notes to Physician

Treat symptomatically. Symptoms may be delayed.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

CO₂, dry chemical, dry sand, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons

Water.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Reacts violently with water.

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. Thermal decomposition can lead to release of irritating gases and vapors.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Do not expose spill to water.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

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Section 7: Handling and storage

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Do not allow contact with water.

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

Shelf life 12 months. May form explosive peroxides on prolonged storage, Containers should be dated when opened and tested periodically for the presence of peroxides, Should crystals form in a peroxidizable liquid, peroxidation may have occurred and the product should be considered extremely dangerous. In this instance, the container should only be opened remotely by professionals. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from water or moist air. Keep away from heat, sparks and flame. Keep under nitrogen. Corrosives area.

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)

Class 3

Switzerland - Storage of hazardous substances

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 Storage class - SC 3

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).

Component	European Union	The United Kingdom	France	Belgium	Spain
Tetrahydrofuran	TWA: 50 ppm (8h)	STEL: 100 ppm 15 min	TWA / VME: 50 ppm (8	TWA: 50 ppm 8 uren	STEL / VLA-EC: 100
	TWA: 150 mg/m ³ (8h)	STEL: 300 mg/m ³ 15	heures). restrictive limit	TWA: 150 mg/m ³ 8 uren	ppm (15 minutos).
	STEL: 100 ppm (15min)	min	TWA / VME: 150 mg/m ³	STEL: 100 ppm 15	STEL / VLA-EC: 300
	STEL: 300 mg/m ³	TWA: 50 ppm 8 hr	(8 heures). restrictive	minuten	mg/m³ (15 minutos).
	(15min)	TWA: 150 mg/m ³ 8 hr	limit	STEL: 300 mg/m ³ 15	TWA / VLA-ED: 50 ppm
	Skin	Skin	STEL / VLCT: 100 ppm.	minuten	(8 horas)
			restrictive limit	Huid	TWA / VLA-ED: 150
			STEL / VLCT: 300		mg/m³ (8 horas)
			mg/m ³ . restrictive limit		Piel
			Peau		

Component	Italy	Germany	Portugal	The Netherlands	Finland
Tetrahydrofuran	TWA: 50 ppm 8 ore.	TWA: 50 ppm (8	STEL: 100 ppm 15	huid	TWA: 50 ppm 8 tunteina

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	Time Weighted Average	Stunden). AGW -	minutos	STEL: 200 ppm 15	TWA: 150 mg/m ³ 8
	TWA: 150 mg/m ³ 8 ore.	exposure factor 2	STEL: 300 mg/m ³ 15	minuten	tunteina
	Time Weighted Average	TWA: 150 mg/m ³ (8	minutos	STEL: 600 mg/m ³ 15	STEL: 100 ppm 15
	STEL: 100 ppm 15	Stunden). AGW -	TWA: 50 ppm 8 horas	minuten	minuutteina
	minuti. Short-term	exposure factor 2	TWA: 150 mg/m ³ 8	TWA: 100 ppm 8 uren	STEL: 300 mg/m ³ 15
	STEL: 300 mg/m ³ 15	TWA: 20 ppm (8	horas	TWA: 300 mg/m ³ 8 uren	minuutteina
	minuti. Short-term	Stunden). MAK	Pele	· · · · · · · · · · · · · · · · · · ·	lho
	Pelle	TWA: 60 mg/m ³ (8	. 5.5		0
	1 5.115	Stunden). MAK			
		Höhepunkt: 40 ppm			
		Höhepunkt: 120 mg/m ³			
		Haut			
		Tladt			
Component	A	Dammanla.	Construenten d	Delend	Nama
	Austria	Denmark	Switzerland	Poland	Norway
Tetrahydrofuran	Haut	TWA: 50 ppm 8 timer	Haut/Peau	STEL: 300 mg/m ³ 15	TWA: 50 ppm 8 timer
	MAK-KZGW: 100 ppm	TWA: 150 mg/m ³ 8 timer	STEL: 100 ppm 15	minutach	TWA: 150 mg/m ³ 8 timer
	15 Minuten	STEL: 300 mg/m ³ 15	Minuten	TWA: 150 mg/m ³ 8	STEL: 75 ppm 15
	MAK-KZGW: 300 mg/m ³		STEL: 300 mg/m ³ 15	godzinach	minutter. value
	15 Minuten	STEL: 100 ppm 15	Minuten		calculated
	MAK-TMW: 50 ppm 8	minutter	TWA: 50 ppm 8		STEL: 187.5 mg/m ³ 15
	Stunden	Hud	Stunden		minutter. value
	MAK-TMW: 150 mg/m ³		TWA: 150 mg/m ³ 8		calculated
	8 Stunden		Stunden		Hud
Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Tetrahydrofuran	TWA: 50.0 ppm	kože	TWA: 50 ppm 8 hr.	Skin-potential for	TWA: 150 mg/m ³ 8
	TWA: 150.0 mg/m ³	TWA-GVI: 50 ppm 8	TWA: 150 mg/m ³ 8 hr.	cutaneous absorption	hodinách.
	STEL: 100 ppm	satima.	STEL: 100 ppm 15 min	STEL: 100 ppm	Potential for cutaneous
	STEL: 300.0 mg/m ³	TWA-GVI: 150 mg/m ³ 8	STEL: 300 mg/m ³ 15	STEL: 300 mg/m ³	absorption
	Skin notation	satima.	min	TWA: 50 ppm	Ceiling: 300 mg/m ³
		STEL-KGVI: 100 ppm	Skin	TWA: 150 mg/m ³	
		15 minutama.			
		STEL-KGVI: 300 mg/m ³			
,					
		15 minutama.			
		15 minutama.			
Component	Estonia	15 minutama. Gibraltar	Greece	Hungary	Iceland
Component Tetrahydrofuran	Estonia Nahk			Hungary STEL: 300 mg/m³ 15	
		Gibraltar	STEL: 250 ppm		STEL: 100 ppm
	Nahk	Gibraltar Skin notation TWA: 50 ppm 8 hr		STEL: 300 mg/m³ 15 percekben. CK	
	Nahk TWA: 50 ppm 8 tundides.	Gibraltar Skin notation TWA: 50 ppm 8 hr TWA: 150 mg/m³ 8 hr	STEL: 250 ppm STEL: 735 mg/m³ TWA: 200 ppm	STEL: 300 mg/m ³ 15	STEL: 100 ppm STEL: 300 mg/m ³
	Nahk TWA: 50 ppm 8 tundides. TWA: 150 mg/m³ 8	Gibraltar Skin notation TWA: 50 ppm 8 hr TWA: 150 mg/m³ 8 hr STEL: 100 ppm 15 min	STEL: 250 ppm STEL: 735 mg/m ³	STEL: 300 mg/m ³ 15 percekben. CK STEL: 100 ppm 15 percekben. CK	STEL: 100 ppm STEL: 300 mg/m ³ TWA: 50 ppm 8 klukkustundum.
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	Nahk TWA: 50 ppm 8 tundides. TWA: 150 mg/m³ 8 tundides. STEL: 100 ppm 15 minutites. STEL: 300 mg/m³ 15	Gibraltar Skin notation TWA: 50 ppm 8 hr TWA: 150 mg/m³ 8 hr STEL: 100 ppm 15 min STEL: 300 mg/m³ 15	STEL: 250 ppm STEL: 735 mg/m³ TWA: 200 ppm	STEL: 300 mg/m³ 15 percekben. CK STEL: 100 ppm 15 percekben. CK TWA: 150 mg/m³ 8 órában. AK TWA: 50 ppm 8 órában.	STEL: 100 ppm STEL: 300 mg/m ³ TWA: 50 ppm 8 klukkustundum. TWA: 150 mg/m ³ 8 klukkustundum.
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Potassium tert-butoxide, 20 wt.% solution in THF

Biological limit values

List source(s):

Component	European Union	United Kingdom	France	Spain	Germany
Tetrahydrofuran				Tetrahydrofuran: 2 mg/L	Tetrahydrofuran: 2 mg/L
				urine end of shift	urine (end of shift)

	Component	Gibraltar	Latvia	Slovak Republic	Luxembourg	Turkey
Ī	Tetrahydrofuran			Tetrahydrofuran: 2 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)
Tetrahydrofuran 109-99-9 (80)				DNEL = 12.6mg/kg bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Tetrahydrofuran 109-99-9 (80)	DNEL = 300mg/m ³	DNEL = 96mg/m ³	DNEL = 150mg/m ³	DNEL = 72.4mg/m ³
2-Propanol, 2-methyl-, potassium salt 865-47-4 (20)	DNEL = 1mg/m ³	DNEL = 1mg/m ³	DNEL = 1mg/m ³	DNEL = 1mg/m ³

Predicted No Effect Concentration (PNEC)

See values below.

ſ	Component	Fresh water	Fresh water	Water Intermittent	Microorganisms in	Soil (Agriculture)
			sediment		sewage treatment	
ſ	Tetrahydrofuran	PNEC = 4.32mg/L	PNEC = 23.3 mg/kg	PNEC = 21.6mg/L	PNEC = 4.6mg/L	PNEC = 2.13mg/kg
	109-99-9 (80)		sediment dw			soil dw
ſ	2-Propanol, 2-methyl-,	PNEC = 0.11mg/L	PNEC =	PNEC = 1.1mg/L	PNEC = 10mg/L	PNEC =
1	potassium salt		0.419mg/kg		_	0.0192mg/kg soil
1	865-47-4 (20)		sediment dw			dw

Component	Marine water	Marine water sediment	Marine water Intermittent	Food chain	Air
Tetrahydrofuran	PNEC = 0.432mg/L	PNEC = 2.33mg/kg		PNEC = 67mg/kg	
109-99-9 (80)	-	sediment dw		food	
2-Propanol, 2-methyl-,	PNEC = 0.011mg/L	PNEC =			
potassium salt		0.0419mg/kg			
865-47-4 (20)		sediment dw			

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8.2. Exposure controls

Engineering Measures

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

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

Eve Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Butyl rubber	See manufacturers	-	EN 374	(minimum requirement)
Nitrile rubber	recommendations			
Viton (R)				
Neoprene gloves				

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.

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

appropriate certified respirators.

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

and maintained properly

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

are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: low boiling organic solvent Type AX Brown conforming to EN371 or Organic gases and vapours filter Type A Brown conforming to EN14387

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

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

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

Tetrahydrofuran

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

No information available. **Environmental exposure controls**

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid **Physical State**

Amber **Appearance**

Odor Petroleum distillates **Odor Threshold** No data available Melting Point/Range No data available **Softening Point** No data available 66 °C / 150.8 °F **Boiling Point/Range** Flammability (liquid) No data available

On basis of test data Not applicable Flammability (solid,gas) Liquid

No data available **Explosion Limits**

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Flash Point -21 °C / -5.8 °F Method - No information available

No information available

Autoignition Temperature

Decomposition Temperature
pH

Viscosity

Viscosity

Outside Service Solubility

321 - °C / 609.8 - °F
No data available
No information available
0.55 cps @ 20 °C
Reacts violently with water

Partition Coefficient (n-octanol/water)

Solubility in other solvents

Component log Pow Tetrahydrofuran 0.45

Vapor Pressure 200 mmHg @ 20°C

Density / Specific Gravity 0.929

Bulk DensityNot applicableLiquidVapor Density2.5(Air = 1.0)

Particle characteristics Not applicable (liquid)

9.2. Other information

Molecular Formula C4 H9 K O Molecular Weight 112.21

Explosive Properties Vapors may form explosive mixtures with air

Evaporation Rate > 1

Section 10: Stability and reactivity

10.1. Reactivity

Yes Reacts violently with water

10.2. Chemical stability

Water reactive. Air sensitive. May form explosive peroxides. Moisture sensitive.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing. Reacts violently with water.

10.4. Conditions to avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces and

sources of ignition. Exposure to moist air or water. Exposure to moisture.

10.5. Incompatible materials

Strong oxidizing agents. Acids.

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 No data available
Dermal No data available

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Inhalation No data available

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tetrahydrofuran	1650 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	180 mg/L (Rat) 1 h
	,]	53.9 mg/L (Rat) 4 h

(b) skin corrosion/irritation; Category 1 A

Category 1 (c) serious eye damage/irritation;

(d) respiratory or skin sensitization;

No data available Respiratory Skin No data available

Component	Test method	Test species	Study result
Tetrahydrofuran	Local Lymph Node Assay	mouse	non-sensitising
109-99-9 (80)	OECD Test Guideline 429		_

(e) germ cell mutagenicity; No data available

Component	Test method	Test species	Study result
Tetrahydrofuran	OECD Test Guideline 476	in vivo	negative
109-99-9 (80)	Gene cell mutation	Mammalian	
	OECD Test Guideline 473		
	Chromosomal aberration assay	in vitro	negative
		Mammalian	_

No data available (f) carcinogenicity;

The table below indicates whether each agency has listed any ingredient as a carcinogen

Limited evidence of a carcinogenic effect

Component	EU	UK	Germany	IARC
Tetrahydrofuran				Group 2B

No data available (g) reproductive toxicity;

Component	Test method	Test species / Duration	Study result
Tetrahydrofuran	OECD Test Guideline 416	Rat	NOAEL = 3,000 ppm
109-99-9 (80)		2 Generation	

No data available (h) STOT-single exposure;

Results / Target organs Respiratory system, Central nervous system (CNS).

No data available (i) STOT-repeated exposure;

Target Organs No information available.

(j) aspiration hazard; No data available

delayed

Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness,

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nausea and vomiting. Causes central nervous system depression.

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

Reacts with water so no ecotoxicity data for the substance is available.

Component	Freshwater Fish	Water Flea	Freshwater Algae
Tetrahydrofuran	2160 mg/l LC50 = 96 h	EC50 48 h 3485 mg/l	
	Pimephales promelas	EC50: >10000 mg/L/24h	
	Leuciscus idus: LC50: 2820	-	
	mg/L/48h		

12.2. Persistence and degradability

Persistence

Persistence is unlikely, based on information available.

Degradability

Reacts with water.

Degradation in sewage treatment plant

Reacts violently with water.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Tetrahydrofuran	0.45	No data available

12.4. Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will likely be mobile in the environment due to its volatility. Disperses rapidly in air

12.5. Results of PBT and vPvB

assessment

Reacts violently with water.

12.6. Endocrine disrupting

properties

Endocrine Disruptor Information

znacemie zierapter imermatien		
Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated
		Substances
Tetrahydrofuran	Group III Chemical	

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

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

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Products 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. Do not empty into drains. Large amounts will affect pH and harm aquatic

organisms.

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 UN2920

14.2. UN proper shipping name Technical Shipping NameCorrosive liquid, flammable, n.o.s.
Tetrahydrofuan, Potassium tert-butoxide

14.3. Transport hazard class(es)8Subsidiary Hazard Class314.4. Packing groupI

<u>ADR</u>

14.1. UN number UN2920

14.2. UN proper shipping name Technical Shipping NameCorrosive liquid, flammable, n.o.s.
Tetrahydrofuan, Potassium tert-butoxide

14.3. Transport hazard class(es)8Subsidiary Hazard Class314.4. Packing groupI

<u>IATA</u>

14.1. UN number UN2920

14.2. UN proper shipping name Technical Shipping NameCorrosive liquid, flammable, n.o.s.
Tetrahydrofuan, Potassium tert-butoxide

14.3. Transport hazard class(es)8Subsidiary Hazard Class314.4. Packing groupI

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

Section 15: Regulatory information

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

International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Tetrahydrofuran	109-99-9	203-726-8	ı	-	Х	X	KE-33454	X	X
2-Propanol, 2-methyl-, potassium	865-47-4	212-740-3	-	-	Х	Χ	KE-24897	Х	Χ
salt									

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Tetrahydrofuran	109-99-9	Х	ACTIVE	X	Ī	X	Х	Х
2-Propanol, 2-methyl-, potassium salt	865-47-4	Х	ACTIVE	Х	-	Х	Х	Х

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)
Tetrahydrofuran	109-99-9	-	Use restricted. See entry 75. (see link for restriction details)	-
2-Propanol, 2-methyl-, potassium salt	865-47-4	-	-	-

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) -	Seveso III Directive (2012/18/EC) -
		Qualifying Quantities for Major Accident	Qualifying Quantities for Safety Report
		Notification	Requirements
Tetrahydrofuran	109-99-9	Not applicable	Not applicable
2-Propanol, 2-methyl-, potassium salt	865-47-4	Not applicable	Not applicable

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 work .

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

National Regulations

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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
Tetrahydrofuran	WGK1	
2-Propanol, 2-methyl-, potassium salt	WGK1	

Component	France - INRS (Tables of occupational diseases)	
Tetrahydrofuran	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
Tetrahydrofuran 109-99-9 (80)		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

H252 - Self-heating in large quantities; may catch fire

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

EUH014 - Reacts violently with water

EUH019 - May form explosive peroxides

Legend

CAS - Chemical Abstracts Service

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

ENCS - Japanese Existing and New Chemical Substances

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

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

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

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

AICS - Australian Inventory of Chemical Substances

Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

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ICAO/IATA - International Civil Aviation Organization/International Air

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Transport Association

IMO/IMDG - International Maritime Organization/International Maritime MARPOL - International Convention for the Prevention of Pollution from Shins

Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

ADR - European Agreement Concerning the International Carriage of

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 On basis of test data **Health Hazards** Calculation method **Environmental hazards** Calculation method

Training Advice

Dangerous Goods by Road

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.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts. Chemical incident response training.

06-Aug-2009 **Creation Date** 06-Dec-2024 **Revision Date Revision Summary** Not applicable.

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

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End of Safety Data Sheet