

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 2122303 Issue date: 18.10.2017 Revision date: 18.12.2023 Version: 1.1

SECTION 1: Identification 1.1. Identification Product form · Substance Potassium 2H,2H,3H,3H-perfluoroundecanoate Substance name • CAS-No. 83310-58-1 : Product code : 2122-3-03 Formula : C11H4F17KO2 Synonyms : 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-Heptafluoroundecanoic acid, potassium salt Other means of identification : MFCD00042142 1.2. Recommended use and restrictions on use Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Supplier SynQuest Laboratories, Inc. Inc. P.O. Box 309 Alachua, FL, Alachua, 32615 United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number : (844) 523-4086 (3E Company - Account 10069) Emergency number SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture **GHS US classification** H302 Harmful if swallowed Acute toxicity (oral) Category 4 Skin corrosion/irritation Category 2 H315 Causes skin irritation Serious eye damage/eye irritation Category 2A Causes serious eye irritation H319

Full text of H statements : see section 16

Specific target organ toxicity - Single exposure, Category 3,

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)

Respiratory tract irritation

Signal word (GHS US) Hazard statements (GHS US) Warning
H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

H335

May cause respiratory irritation

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P26 P27 P27 P28 P30 P30 P30 P30 P31 P32 P32 P33 P33 P33 P33 P34 P40 P40 P40	 Avoid breathing dust, mist, spray. Wash skin thoroughly after handling Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell P352 - If on skin: Wash with plenty of soap and water P4+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P5+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove tact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell Specific treatment (see supplemental first aid instructions on this label) Rinse mouth. P37+P313 - If skin irritation occurs: Get medical advice/attention. P4+P34 - Take off contaminated clothing and wash it before reuse. P37+P33 - Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to an approved waste disposal plant
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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%	GHS US classification
Potassium 2H,2H,3H,3H-perfluoroundecanoate (Main constituent)	CAS-No.: 83310-58-1	≤ 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

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First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

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First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.	
4.2. Most important symptoms and effects	(acute and delayed)	
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.	
4.3 Immediate medical attention and special treatment if necessary		

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) exting	uishing media		
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.		
5.2. Specific hazards arising from the	e chemical		
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Potassium oxides.		
5.3. Special protective equipment an	d precautions for fire-fighters		
Firefighting instructions Protection during firefighting	 In case of fire: Evacuate area. Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection". 		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up Other information	 Stop leak if safe to do so. Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. For disposal of solid materials or residues refer to section 13 : "Disposal considerations". 	
6.4 Reference to other sections		

No additional information available

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SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	 Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety procedures. 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 Incompatible materials Storage area	 Comply with applicable regulations. Keep container closed when not in use. Refer to Section 10 on Incompatible Materials. Store in dry, cool, well-ventilated area. 	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium 2H,2H,3H,3H-perfluoroundecanoate (83310-58-1)		
No additional information available		
8.2. Appropriate engineering controls		
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers	

: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

protective gloves. 29 CFR 1910.138: Hand Protection

Eye protection:

Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection

Personal protective equipment symbol(s):



Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	chemical proper	ties
Physical state	: Solid	
Color	: No data av	/ailable
Odor	: No data av	/ailable
Odor threshold	: No data av	/ailable
pH	: No data av	/ailable
Melting point	: 207 – 209	°C
Freezing point	: No data av	/ailable
Boiling point	: No data av	/ailable
Flash point	: No data av	/ailable
Relative evaporation rate (butyl acetate=1)	: No data av	/ailable
Flammability (solid, gas)	: No data av	/ailable
Vapor pressure	: No data av	/ailable
Relative vapor density at 20 °C	: No data av	/ailable
Relative density	: No data av	/ailable
Molecular mass	: 530,22 g/m	nol
Solubility	: No data av	/ailable
Partition coefficient n-octanol/water (Log Pow)	: No data av	/ailable
Auto-ignition temperature	: No data av	/ailable
Decomposition temperature	: No data av	/ailable
Viscosity, kinematic	: No data av	/ailable
Viscosity, dynamic	: No data av	/ailable
Explosion limits	: No data av	/ailable
Explosive properties	: No data av	/ailable
Oxidizing properties	: No data av	/ailable
Axidizing properties	: No data av	allable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

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11.1. Information on toxicological e	offects
Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2 and/or in section 11.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Potassium 2H,2H,3H,3H-perfluoroundecanoate (83310-58-1)		
	Not readily biodegradable. May cause long-term adverse effects in the environment. PBT - Persistent, Bioaccumulative and Toxic.	

12.3. Bioaccumulative potential

Potassium 2H,2H,3H,3H-perfluoro	um 2H,2H,3H,3H-perfluoroundecanoate (83310-58-1)	
Bioaccumulative potential	Perfluorinated alkanes (PFAs, "forever chemicals") are long lasting, widely used chemicals that break down slowly over time. The potential hazards of PFAs are under investigation and have not been established.	
12.4. Mobility in soil		

No additional information available

12.5. Other adverse effects

No additional information available

ECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations Additional information	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. See the EPA's Interim Guidance on PFAS Destruction and Disposal. Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible. 	

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Ecology - waste materials	: This material is considered to be a "Forever chemical". Prevent any possible release to the environment. Do not discharge into drains. Take all necessary measures to prevent accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems, or emergency response.		
SECTION 14: Transport information	on		
14.1. UN number			
Not regulated for transport			
14.2. UN proper shipping name			
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not applicable Not applicable Not applicable Not applicable 		
14.3. Transport hazard class(es)			
DOT Transport hazard class(es) (DOT)	: Not applicable		
TDG Transport hazard class(es) (TDG)	: Not applicable		
IMDG Transport hazard class(es) (IMDG)	: Not applicable		
IATA Transport hazard class(es) (IATA)	: Not applicable		
14.4. Packing group			
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 Not applicable Not applicable Not applicable Not applicable 		
14.5. Environmental hazards			
Other information	: No supplementary information available.		
14.6. Special precautions for user			
DOT No data available			
TDG No data available			
IMDG No data available			
IATA No data available			
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			

Not applicable

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SECTION 15: Regulatory information					
15.1. US Federal regulations					
All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:					
Potassium 2H,2H,3H,3H-perfluoroundecanoate	CAS-No. 83310-58-1	100%			
15.2. International regulations					
CANADA					
No additional information available					

EU-Regulations

Potassium 2H,2H,3H,3H-perfluoroundecanoate (83310-58-1)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases		
H302	Harmful if swallowed	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
NFPA health haza		laterials that, under emergency conditions, can cause serious or hanent injury.
NFPA fire hazard	: 0 - M	laterials that will not burn under typical fire conditions, including sically noncombustible materials such as concrete, stone, and
NFPA reactivity		laterial that in themselves are normally stable, even under fire itions.
Hazard Rating		
Health	: 3 Sei giver	rious Hazard - Major injury likely unless prompt action is taken and medical treatment is
Flammability Physical	: 0 Mir : 0 Mir	nimal Hazard - Materials that will not burn nimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT : with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Safety Data Sheet (SDS), USA