

**1,1,2,2-Tetrabromoethane** Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 2/3/2021 Version: 1.0

	ance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: 1,1,2,2-Tetrabromoethane
EC-No.	: 201-191-5
CAS-No.	: 79-27-6
Product code	: 12339588
Formula	: C2H2Br4
Product group	: Raw material
1.2. Relevant identified uses of the substan	ce or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Laboratory use,Industrial use,Professional use
Industrial/Professional use spec	: For professional use only
Use of the substance/mixture	: For analytical purposes
	Scientific research and development
	Not for human consumption or veterinary purposes.
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety data	a sheet
Supplier	
Scafell Organics	
Molekula Ltd	
Lingfield Way	
P.O. Box DL1 4XX	
Darlington - England T +44 (0) 3302 000 333	
info@molekula.com / kevinbanks@molekula.com - v	www.molekula.com
1.4. Emergency telephone number	
	+44 (0) 7769276927
SECTION 2: Hazards identification	
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2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 1 Serious eye damage/eye irritation, Category 2	H300 H319
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This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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<b>SECTION 3: Composition/information</b>	n on ingredients		SECTION 3: Composition/information on ingredients		
3.1. Substances					
Name	Product identifier	%			
1,1,2,2-Tetrabromoethane	(CAS-No.) 79-27-6 (EC-No.) 201-191-5	100			

### Full text of H-statements: see section 16

3.2. Mixtures Not applicable

SECTION 4. Eirst sid massures	
SECTION 4: First aid measures	
4.1. Description of first aid measures First-aid measures general	: If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Headache. Fatal if inhaled.
Symptoms/effects after skin contact	: May cause skin irritation. Redness, pain. More severe symptoms are also possible.
Symptoms/effects after eye contact	: Causes serious eye irritation. Blurred vision. redness, itching, tears. stinging.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. More severe symptoms are also possible.

**4.3. Indication of any immediate medical attention and special treatment needed** Immediately call a POISON CENTER/doctor.

SECTION 5: Firefighting measures 5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
<b>5.2. Special hazards arising from the substa</b> Hazardous decomposition products in case of fire	ince or mixture : Carbon oxides (CO, CO2). hydrogen bromide.
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Isolate from fire, if possible, without unnecessary risk. Do not breathe gas, fumes, vapour or spray. No flames, no sparks. Eliminate all sources of ignition.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.
Measures in case of dust release	: Shelter from vapours by keeping upwind. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.
Emergency procedures	: Ventilate area.

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6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.		
6.3. Methods and material for containme	ent and cleaning up	
For containment	: Collect spillage. Contain the spilled material by bunding.	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Try to stop release if without risk.	
6.4. Reference to other sections		
See Heading 8 Exposure controls and personal	Invotection	

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid formation of vapours. Provide local exhaust or general room ventilation.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including a	ny incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use.
Incompatible products	: Strong oxidizing agents. Strong bases. Metals. Butyl rubber.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Store at ambient temperature. Store in a dry place. Store in a closed container.
7.2 Creatific and use(a)	

### 7.3. Specific end use(s)

For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

the regulation 2016/425 and the resultant standard EN 374	The protective gloves to be used must comply with the specifications of the reg
i the regulation 2016/425 and the resultant standard EN 374 Thickness (mm) Penetration Standard	
	Type Material Permeation Thi
Thickness (mm)         Penetration         Standard	Type Material Permeation Thi
the regulation 2016/425 and the resultant standard EN 374	ne protective gloves to be used must comply with the specifications of the reg
the regulation 2016/425 and the resultant standard EN 274	a protective gloves to be used must comply with the specifications of the root
	and protection:
	ear suitable protective clothing, gloves and eye/face protection
	aterials for protective clothing:
	pid all unnecessary exposure.
	Il unnecessary exposure.
	ersonal protective equipment:

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### **Respiratory protection:**

Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Air-Purifying Respirator (APR), reusable	ABEK	Moist condition, Mist formation, Protection for Liquid particles, Vapour protection	EN 14387

### Other information:

Do not eat, drink or smoke during use.

<b>SECTION 9: Physical and chemical pro</b>	nartias
9.1. Information on basic physical and cher	
Physical state	: Liquid
Appearance	: Transparent.
Molecular mass	: 345.64 g/mol
Colour	: colourless to yellow.
Odour	: strong.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -1 - 1 °C
Freezing point	: No data available
Boiling point	: 119 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 2.96
Solubility	: No data available
Log Pow	: 1.98
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	

No additional information available

10.1. Reactivity	
The product is non-reactive under normal conditions of u	ise, storage and transport.
10.2. Chemical stability	
Stable under recommended handling and storage condit	tions (see section 7).
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal conditions	of use.
10.4. Conditions to avoid	
Protect from sunlight. Keep away from heat, hot surfaces	s, sparks, open flames and other ignition sources. No smoking.
10.5. Incompatible materials	
Strong oxidizers. Strong bases. Metals. Butyl rubber.	
10.6. Hazardous decomposition products	
No hazardous decomposition products known at room te	emperature. Thermal decomposition generates : Carbon oxides (CO, CO2). hydrogen
promide.	

<b>SECTION 11: Toxicological information</b>	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Oral: Fatal if swallowed.
Acute toxicity (dermal)	: Not classified

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Acute toxicity (inhalation)	: Not classified
1,1,2,2-Tetrabromoethane (79-27-6)	
LD50 oral rat	1200 mg/kg
LD50 dermal rat	5250 mg/kg
LC50 inhalation rat (mg/l)	589 mg/m³ - 4 h
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye irritation.
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	Not classified
Hazardous to the aquatic environment, long-term : (chronic)	Harmful to aquatic life with long lasting effects.
12.2. Persistence and degradability	
1,1,2,2-Tetrabromoethane (79-27-6)	
Persistence and degradability	No data available.
12.3. Bioaccumulative potential	
1,1,2,2-Tetrabromoethane (79-27-6)	
Log Pow	1.98
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
1,1,2,2-Tetrabromoethane (79-27-6)	
This substance/mixture does not meet the PBT criteria	of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria	of REACH regulation, annex XIII
12.6. Other adverse effects	
Additional information :	Avoid release to the environment.
SECTION 12: Disposal considerations	

## SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

# SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	I			I
2504	2504	2504	2504	2504
14.2. UN proper shippin				
	-			
TETRABROMOETHANE	TETRABROMOETHANE	Tetrabromoethane	TETRABROMOETHANE	TETRABROMOETHANE
Transport document descr	iption			
UN 2504 TETRABROMOETHANE (1,1,2,2- Tetrabromoethane), 6.1, III, (E)	UN 2504 TETRABROMOETHANE (1,1,2,2- Tetrabromoethane), 6.1, III, MARINE POLLUTANT	UN 2504 Tetrabromoethane (1,1,2,2- Tetrabromoethane), 6.1, III	UN 2504 TETRABROMOETHANE (1,1,2,2- Tetrabromoethane), 6.1, III	UN 2504 TETRABROMOETHANE (1,1,2,2- Tetrabromoethane), 6.1, III
14.3. Transport hazard o	class(es)			
6.1	6.1	6.1	6.1	6.1
6		6	6	6
14.4. Packing group		·		
III	III	III	111	III
14.5. Environmental haz	ards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : Yes	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary informatic	on available			I
4.6. Special precautions	s for user			
Overland transport				
Classification code (ADR)	: T1			
imited quantities (ADR)	: 51			
Excepted quantities (ADR)	: E1			
Packing instructions (ADR)		01, IBC03, LP01, R001		
Mixed packing provisions (AD Portable tank and bulk contain	,	/19		
ADR)				
Portable tank and bulk contain ADR)	ner special provisions :TP	1		
Γank code (ADR)	: L4	BH		
ank special provisions (ADR		15, TE19		
/ehicle for tank carriage	: AT			
Fransport category (ADR)	: 2	0		
Special provisions for carriage Special provisions for carriage	e - Loading, : CV	2 (13, CV28		
Inloading and handling (ADR Special provisions for carriage				
lazard identification number	,			
Drange plates	(Remier No.)	(1)		
		60 2504		
Funnel restriction code (ADR) EAC code	) : E : 2Z			
Transport by sea				
Packing instructions (IMDG)	: P0	01, LP01		
BC packing instructions (IMD	IBC : IBC	203		
Tank instructions (IMDG)	: T4			
Tank special provisions (IMD	G) : TP	1		

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according to Regulation (EC) No. 1907/2006 (REACH) with i	ts amendment Regulation (EU) 2015/830
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Colourless to yellowish liquid with a camphor-like odour. Toxic if swallowed, by skin contact or by inhalation.
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y642
PCA limited quantity max net quantity (IATA)	: 2L
PCA packing instructions (IATA)	: 655
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 663
CAO max net quantity (IATA)	: 220L
ERG code (IATA)	: 6L
Inland waterway transport	
Classification code (ADN)	: T1
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: T1
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 60
14.7. Transport in bulk according to Annex I	I of Marpol and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions 1,1,2,2-Tetrabromoethane is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

<b>SECTION 16: Other info</b>	ormation
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

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Full text of H- and EUH-statements:	
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H300	Fatal if swallowed.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.