

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 6/18/2020 Version: 1.0

SECTION 1: Identification of the substa	nce/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Substance name	: 3,3,5,5-Tetramethylbenzidine		
EC-No.	: 259-364-6		
CAS-No.	: 54827-17-7		
Product code	: 29622681		
Formula	: C16H20N2		
Product group	: Raw material		
1.2. Relevant identified uses of the substance	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 Ľtd			
Lingfield Way			
Darlington - England			
T +44 (0) 3302 000 333 info@molekula.com / kevinbanks@molekula.com - w	www.molekula.com		
1.4. Emergency telephone number	WW.HoloKuld.com		
	+44 (0) 7769276927		
SECTION 2: Hazards identification			
0.4. Cleanification of the sector			
2.1. Classification of the substance or mixtu	Ire		
Classification according to Regulation (EC) No. 1	272/2008 [CLP]		
Classification according to Regulation (EC) No. 1 Skin corrosion/irritation, Category 2	272/2008 [CLP] H315		
Classification according to Regulation (EC) No. 1 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2	272/2008 [CLP] H315 H319		
Classification according to Regulation (EC) No. 1 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity — Single exposure, Cat	272/2008 [CLP] H315 H319		
Classification according to Regulation (EC) No. 1 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity — Single exposure, Cat Respiratory tract irritation	272/2008 [CLP] H315 H319		
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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

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	
3,3,5,5-Tetramethylbenzidine (CAS-No.) 54827-17-7 100 (EC-No.) 259-364-6			
(EC-No.) 259-364-6			

Full text of H-statements: see section 16 3.2. Mixtures

Not applicable

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	: Irritation to throat. Headache. Cough. Burning sensation.
Symptoms/effects after skin contact	: Causes skin irritation. Itching. Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye irritation. redness, itching, tears. stinging.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Abdominal pain, nausea.
4.3. Indication of any immediate medical at	ttention and special treatment needed

Get immediate medical advice/attention.

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.
5.2. Special hazards arising from the substa	ance or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Nitrogen oxides.
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	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
General measures	: Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. 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	: Keep upwind. Avoid creating or spreading dust. 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.
6.2. Environmental precautions	
Drevent entry to severe and public waters. Notify	e utile e liferene du et e reterne le europe en restelle sustane

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a closed container for disposal.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid creating or spreading dust. 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. Moisture sensitive. Store under nitrogen. Light sensitive.
Incompatible products	: Strong oxidizing agents. Metals. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Storage temperature	: 2 - 8 °C
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Store in a dry place. Store in a closed container.
7.3. Specific end use(s)	

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

SECTION 8: Expos	sure cont	rols/perso	onal protection				
8.1. Control paramet	ers						
No additional information	n available						
8.2. Exposure contro	ols						
Appropriate engineerin	g controls:						
Handle in accordance wi	th good indu	istrial hygien	e and safety procedure	S.			
Personal protective equ	uipment:						
Avoid all unnecessary ex	cposure.						
Materials for protective	e clothing:						
Wear suitable protective	e clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves to	be used mu	ust comply w	ith the specifications of	the regulation 2016/425	and the resul	tant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetrati	on	Standard
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash for designed to protect again			ble in the immediate vio	cinity of any potential exp	osure. Use e	ye protection	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety goggles Fine dust, Dust		Dust	tightly fitting safety goggles, With EN 166 side shields				
Skin and body protect	ion:						
Emergency safety show clothing readily available			n the immediate vicinity	of any potential exposu	re. Keep suita	able chemical	ly resistant protective
Туре				Standard			
Protective clothing (with	elasticated	cuffs and clo	osed neck)	EN ISO 13982			
Respiratory protection	1:						
Keep self contained bre protection equipment is			available for emergenc	y use. Where exposure t	hrough inhala	ation may occ	ur from use, respiratory

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре РЗ	Dust protection	EN 14387, EN 143

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Powder.	
Colour	: White to off-white. Grey. Yellow.	
Odour	: No data available.	
Odour threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 168 - 171 °C	
Freezing point	: No data available	
Boiling point	: 168 - 169	
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	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
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

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under recommended handling and storage conditions (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, sparks, open flames and other ignition sources. No smoking.
10.5. Incompatible materials
Strong oxidizers. Metals. Strong acids.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Nitrogen oxides.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral) : Not c	lassified
Acute toxicity (dermal) : Not c	lassified
Acute toxicity (inhalation) : Not c	lassified
Skin corrosion/irritation : Caus	es skin irritation.
Additional information : Base	d on available data, the classification criteria are not met
Serious eye damage/irritation : Caus	es serious eye irritation.
Additional information : Base	d on available data, the classification criteria are not met
Respiratory or skin sensitisation : Not c	lassified

3,3,5,5-Tetramethylbenzidine Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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	: May cause respiratory irritation.
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)	Not classified			
12.2. Persistence and degradability				
3,3,5,5-Tetramethylbenzidine (54827-17-7)				
Persistence and degradability	No data available.			
12.3. Bioaccumulative potential				
3,3,5,5-Tetramethylbenzidine (54827-17-7)				
Bioaccumulative potential	No data available.			
12.4. Mobility in soil				
No additional information available				
12.5. Results of PBT and vPvB assessment				
3,3,5,5-Tetramethylbenzidine (54827-17-7)				
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 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.

rt information						
In accordance with ADR / RID / IMDG / IATA / ADN						
IMDG	ΙΑΤΑ	ADN	RID			
14.1. UN number						
Not regulated	Not regulated	Not regulated	Not regulated			
14.2. UN proper shipping name						
Not regulated	Not regulated	Not regulated	Not regulated			
14.3. Transport hazard class(es)						
Not regulated	Not regulated	Not regulated	Not regulated			
14.4. Packing group						
Not regulated	Not regulated	Not regulated	Not regulated			
	/ IMDG / IATA / ADN IMDG Not regulated g name Not regulated lass(es) Not regulated	/ IMDG / IATA / ADN IMDG IATA IMDG IATA Not regulated Not regulated g name Not regulated Not regulated lass(es) Not regulated Not regulated	/ IMDG / IATA / ADN IMDG IATA ADN Not regulated Not regulated Not regulated name Not regulated Not regulated Not regulated lass(es) Not regulated Not regulated Not regulated			

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.5. Environmental haza	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary informatior	n available			
4.6. Special precautions	for user			
Overland transport				
lot regulated				
Transport by sea				
Not regulated				
Air transport Not regulated				
Inland waterway transport				
Not regulated				
Rail transport				
Not regulated				
14.7. Transport in bulk ac	cording to Annex II of M	arpol and the IBC Code		
Not applicable				
SECTION 15: Regulato 15.1. Safety, health and e		s/legislation specific for t	the substance or mixture	e
15.1.1. EU-Regulations	in a second s			•
No REACH Annex XVII restrict				
3,3,5,5-Tetramethylbenzidine i Directive 2012/18/EU (SEVES		ate List		
Υ.	0 111)			
15.1.2. National regulations No additional information availation	abla			
15.2. Chemical safety ass				
No chemical safety assessmer		e substance or the mixture by	the supplier	
SECTION 16: Other info				
Data sources) No 1272/2008 OF THE EUR classification, labelling and pa		
	repealing Directives	67/548/EEC and 1999/45/EC	c, and amending Regulation (EC) No 1907/2006.
Other information	: None.			
Full text of H- and EUH-stat	tements:			
Eye Irrit. 2	Serious eye dama	ge/eye irritation, Category 2		
Skin Irrit. 2	Skin corrosion/irrit	ation, Category 2		
STOT SE 3	Specific target org	an toxicity — Single exposure	, Category 3, Respiratory trac	t irritation
H315	Causes skin irritati			
H319	Causes serious ey			
H335	May cause respira			
1000				

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.