

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

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

1.1 Product identifier	
Product Name	Guanidinium tetrafluoroborate
Synonyms	GuaBF4
Chemical Name	Amino(imino)methanaminium tetrafluoroborate
Chemical Formula	CH6BF4N3
CAS No.	36595-00-3
EC No.	Not available.
Index No.	Not available.
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the sub	stance or mixture and uses advised against
Identified Use(s)	PC21 Laboratory chemicals, Research and development use only
1.3 Details of the supplier of the safety	v data sheet
Company Identification	Ossila Limited
Address of Supplier	Solpro Business Park
••	Windsor Street

	Sheffield
Postal code	S4 7WB, UK
Telephone:	+441142999180
E-mail	info@ossila.com
Office hours	08:00 - 17:00
1.4 Emergency telephone number	
Emergency Phone #	+44 (0) 20 3885 0382 (CHEMTREC)

Other Regions	Emergency Phone Number (CHEMTREC)	
Europe, Middle East, Africa	+44 20 3885 0382	
North America	+1 703 527 3887	
Central America	+52 55 8526 4930	
South America	+55 11 4349 1359	
Asia, India, and Oceania	+65 3163 8374	

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or Regulation (EC) No. 1272/2008 (CLP)	mixture Acute Tox. 4: Harmful if swallowed Skin Irrit. 2: Causes skin irritation Eye Dam. 1: Causes serious eye damage STOT SE 3: May cause respiratory irritation
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	Guanidinium tetrafluoroborate
Hazard Pictogram(s)	GHS05 GHS07
Signal Word(s)	Danger
Hazard Statement(s)	H302: Harmful if swallowed H315: Causes skin irritation H318: Causes serious eye damage H335: May cause respiratory irritation
Precautionary Statement(s)	 P280: Wear protective gloves/protective clothing/eye protection. P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. P302 + P352: IF ON SKIN: Wash with plenty of water. P305 + P310 + P351 + P338: IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor if you feel unwell. P337 + P313: If eye irritation persists: Get medical advice/attention.



STOT SE 3 H335

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

2.4 Additional Information

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS 3.1 Substances Hazardous ingredient(s) CAS No. EC No. %W/W Hazard Statement(s) Amino(imino)methanaminium tetrafluoroborate 36595-00-3 Not available. ≤ 100 Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318

3.2	Mixtures
Not	applicable.

SECTION 4: FIRST AID MEASURES

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4.1 Description of first aid measured	res
General Advice	First aiders should ensure they have taken adequate steps to protect themselves
	from exposure (see Section 8 for recommended personal protection equipment)
	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical
	advice/attention if you feel unwell.
Skin Contact	Rinse skin with water. If skin irritation occurs, get medical advice/attention.
Eye Contact	Flush with copious amounts of water for at least 15 minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or
	doctor/physician.
Ingestion	Rinse out mouth with water. Get medical advice/attention if you feel unwell.
4.2 Most important symptoms and	
	Most important symptoms and effects, both acute and delayed, are included on
	labelling (Section 2.2) and in Section 11.
4.3 Indication of any immediate m	nedical attention and special treatment needed
	Treat symptomatically.
SECTION 5: FIREFIGHTING MEAS	URES
5.1 Extinguishing media	
Suitable Extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	As appropriate for surrounding fire.
5.2 Special hazards arising from t	
	Carbon oxides
	Borane/boron oxides
	Nitrogen oxides (NOx)
	Hydrogen fluoride
5.3 Advice for firefighters	
	Fire fighters should wear complete protective clothing including self-contained
	breathing apparatus.
SECTION 6: ACCIDENTAL RELEA	SE MEASURES
6.1. Personal propautions	ive equipment and emergency precedures
o. rersonal precautions, protect	ive equipment and emergency procedures
	Follow safe handling advice and personal protective equipment recommendations
	(as per section 8). Provide adequate ventilation.
6.2 Environmental precautions	

collecting spilt materials, where practicable. Dispose of contents in accordance with local, state or national legislation.6.4 Reference to other sections

See Also Section 8, 13.

6.3 Methods and material for containment and cleaning up

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-
Advice on safe handling	ventilated area. Wear protective clothing as per section 8.
Hygiene measures	Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.

Avoid release to the environment.

Sweep up spilled substance - avoid making dust. Use vacuum equipment for



SAFETY DATA SHEET

7.2 Conditions for safe storage, inc	cluding any incompatibilities
_	Store in a well-ventilated place. Keep container tightly closed.
Storage temperature	Ambient.
Storage life	Product is air, light and moisture sensitive. Store in the dark. Handle and store under inert gas.
Incompatible materials	None known.
7.3 Specific end use(s)	
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	
8.1.1 Occupational Exposure Limits	No Occupational Exposure Limit assigned.
8.2 Exposure controls	· · · · ·
8.2.1. Appropriate engineering controls	Ensure adequate ventilation and/or exhaust. A washing facility/water for eye and skin cleaning purposes should be present.
8.2.2. Personal protection equipment	
Eye Protection	Wear eye protection with side protection tested and approved under appropriate government standards such as EN166 (EU).
Hand protection	Handle with gloves. Gloves must be inspected prior to use and proper glove removal techniques should be used. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Body protection	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full- face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls.
Thermal hazards	None known.
8.2.3. Environmental Exposure Controls	Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State Solid: Powder/Crystals. Colour White. Odour Not known. Odour threshold Not known. Melting point/freezing point Not known. Initial boiling point and boiling range Not known. Flammability Not known. Lower and upper explosion limit Not known. Flash Point Not known. Auto-ignition temperature (°C) Not known. Decomposition temperature (°C) Not known. Not known. pН Kinematic viscosity Not known. Solubility(ies) Solubility (Water): Not known. Solubility (Other): Not known. Partition coefficient: n-octanol/water (log Not known. value) Vapour pressure Not known. Density Not known. Relative density Not known. Relative vapour density Not known. Particle characteristics Not known. 9.2 Other information None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	
	None anticipated.
10.2 Chemical Stability	
	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	6
	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition produc	ets
	In the event of fire: see Section 5



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effect	ts
Acute toxicity - Ingestion	No data available.
Acute toxicity - Skin Contact	No data available.
Acute toxicity - Inhalation	No data available.
Skin corrosion/irritation	No data available.
Serious eye damage/irritation	No data available.
Skin sensitization data	No data available.
Respiratory sensitization data	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
Lactation	No data available.
STOT - single exposure	No data available.
STOT - repeated exposure	No data available.
Aspiration hazard	No data available.
11.2 Information on other hazards	
11.2.1 Endocrine disrupting properties	
	None known.
11.2.2. Information on other hazards	
	None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	
-	No data available.
Toxicity - Aquatic invertebrates	No data available.
Toxicity - Fish	No data available.
Toxicity - Algae	No data available.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.
12.2 Persistence and Degradation	
	Not known.
12.3 Bioaccumulative potential	
	Not known.
12.4 Mobility in soil	
	Not known.
12.5 Results of PBT and vPvB asses	sment
	This substance/mixture contains no components considered to be either persistent
	bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative
	(vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting properties	
	Not known.
12.7 Other adverse effects	
	Not known.
SECTION 13: DISPOSAL CONSIDERA	TIONS
13.1 Waste treatment methods	
	Dispose of contents in accordance with local, state or national legislation. Recycle
	only completely emptied packaging. Normal disposal is via incineration operated by
	an accredited disposal contractor. Send to a licensed recycler, reclaimer or
	incinerator.
13.2 Additional Information	
	Disposal should be in accordance with local, state or national legislation.
SECTION 14: TRANSPORT INFORMA	TION
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
SECTION 15: REGULATORY INFORM	ATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture European Regulations - Authorisations and/or Restrictions On Use Candidate List of Substances of Very Not listed High Concern for Authorisation Not listed REACH: ANNEX XIV list of substances Not listed subject to authorisation Not listed REACH: Annex XVII Restrictions on the Not listed

manufacture, placing on the market and use of certain dangerous substances, mixtures and articles



Community Rolling Action Plan (CoRAP) Regulation (EC) N° 850/2004 of the European Parliament and of the Council	Not listed Not listed
on persistent organic pollutants Regulation (EC) N° 1005/2009 on	Not listed
substances that deplete the ozone layer	
Regulation (EU) N° 649/2012 of the	Not listed
European Parliament and of the Council concerning the export and import of	
hazardous chemicals	
National regulations	
Other	Not known.
15.2 Chemical Safety Assessment	A DEACH sharping active account has not been comind out
	A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Acronyms	ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road CAS : Chemical Abstracts Service CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures DNEL : Derived No Effect Level EC : European Community EINECS : European Inventory of Existing Commercial Chemical Substances IATA : International Air Transport Association IBC : Internediate Bulk Container ICAO : International Civil Aviation Organization IMDG : International Maritime Dangerous Goods LTEL : Long term exposure limit PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulations concerning the International Carriage of Dangerous Goods by Rail STEL : Short term exposure limit STOT : Specific Target Organ Toxicity UN : United Nations vPvB : very Persistent and very Bioaccumulative
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