SAFETY DATA SHEET



Revision Date 03-May-2012

Revision Number 2

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

Product Identifier Product Description: Cat No. Synonyms

Tetrabutylammonium nitrate 420130000; 420130250 1-Butanaminium, N,N,N-Tributyl-, Nitrate.

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo Information available

Details of the supplier of the safety data sheet Company Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium

E-mail address

begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity - (single exposure)	Category 3
Oxidizing solids.	Category 2

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16Symbol(s)O - Oxidizing
Xi - IrritantR-phrase(s)R 8 - Contact with combustible material may cause fire
R 9 - Explosive when mixed with combustible material
R36/37/38 - Irritating to eyes, respiratory system and skin





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SECTION 2. HAZARDS IDENTIFICATION



Signal WordDangerHazard StatementsH315 - Causes skin irritationH319 - Causes serious eye irritationH335 - May cause respiratory irritationH272 - May intensify fire; oxidizer

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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

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

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
1-Butanaminium, N,N,N-tributyl-, nitrate 1941-27-1	EEC No. 217-726-0	98	1941-27-1	O;R8-9 Xi;R36/37/38;	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Ox. Sol. 2 (H272)	-





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For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

Description of first aid measures	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician. Take off contaminated clothing and shoes immediately.
Ingestion	Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. Clean mouth with water. Get medical attention. If possible drink milk afterwards.
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
Notes to Physician	Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water spray. Use water spray to cool unopened containers.

Extinguishing media which must not be used for safety reasons No information available.

Special hazards arising from the substance or mixture

Oxidizer: Contact with combustible/organic material may cause fire.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

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Tetrabutylammonium nitrate

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Do not ingest.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store near combustible materials.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Biological limit values Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies. No information available. No information available.
Exposure controls	
Engineering Measures Personal protective equipment Eye Protection Hand Protection Skin and body protection Respiratory Protection	Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location Goggles Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Hygiene Measures Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Powder, Solid





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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance pH Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Water Solubility Molecular Formula Molecular Weight White No information available. No information available. 116 - 120°C / 240.8 - 248°F No information available. No information available. <2% C16 H36 N2 O3 304.46

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions. Hygroscopic.

Possibility of Hazardous Reactions

Hazardous Polymerization	No information available.
Hazardous Reactions .	No information available.

Conditions to Avoid

Incompatible products, Exposure to moist air or water, Combustible material.

Incompatible Materials

Strong oxidizing agents, Strong acids, Strong reducing agents, Powdered metals.

Hazardous Decomposition Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). Ammonia.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects	
Acute Toxicity	
Product Information	No acute toxicity information is available for this product
Component Information	
Chronic Toxicity	
Carcinogenicity	There are no known carcinogenic chemicals in this product
	There are no known carcinogenic chemicals in this product



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Tetrabutylammonium nitrate

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		ODMATION
	SECTION 11. TOXICOLOGICAL INF	
Component 1-Butanaminium, N,N,N- tributyl-, nitrate	Group 2A	
Sensitization Mutagenic Effects Reproductive Effects Developmental Effects Target Organs Other Adverse Effects Endocrine Disruptor Information	No information available. No information available No information available. No information available. No information available. The toxicological properties have not been fu complete information None known	ully investigated. See actual entry in RTECS for
	SECTION 12. ECOLOGICAL INFO	RMATION
Toxicity Ecotoxicity effects	Do not empty into drains	
Persistence and degradability No information available Bioaccumulative potential No information available. Mobility in soil		
No information available.		
Results of PBT and vPvB assess	nent	
Other adverse effects No information available		
	SECTION 13. DISPOSAL CONSIDE	RATIONS
Waste treatment methods Waste from Residues / Unused	Dispose of in accordance with local regulatio	ns

Products



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SECTION 14. TRANSPORT INFORMATION

IMDG/IMO

UN-No	1479
Hazard Class	5.1
Packing Group	II
Proper Shipping Name	OXIDIZING SOLID, N.O.S.

ADR

UN-No	1479
Hazard Class	5.1
Packing Group	II
Proper Shipping Name	OXIDIZING SOLID, N.O.S.

ΙΑΤΑ

UN-No	1479
Hazard Class	5.1
Packing Group	II
Proper Shipping Name	OXIDIZING SOLID, N.O.S.*

SECTION 15. REGULATORY INFORMATION

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

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
1-Butanaminium, N,N,N-tributyl-,	217-726-0	-		Х	Х	-	-	-	-	-	-
nitrate											1

Legend

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances





Chemical Safety Assessment

SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R 8 - Contact with combustible material may cause fire R 9 - Explosive when mixed with combustible material R36/37/38 - Irritating to eyes, respiratory system and skin

Revision Date Revision Summary Reason for revision 03-May-2012

Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet