



Revision Date 06-Feb-2012

**Revision Number** 3

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

Product Identifier Product Description: Cat No.

Titanium(IV) bromide 391240000; 391240050; 391240250; 391241000

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 sheetCompanyAcros Organics BVBAJanssen Pharmaceuticalaan 3a2440 Geel, BelgiumE-mail addressbegel.sdsdesl

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 1 B
Serious Eye Damage/Eye Irritation	Category 1

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)C - CorrosiveR-phrase(s)R14 - Reacts violently with waterR34 - Causes burns



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## **SECTION 2. HAZARDS IDENTIFICATION**



Signal Word

Danger

Hazard Statements H314 - Causes severe skin burns and eye damage EUH014 - Reacts violently with water

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

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P280 - Wear 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

P310 - Immediately call a POISON CENTER or doctor/ physician

P402 + P404 - Store in a dry place. Store in a closed container

#### 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.
Titanium tetrabromide 7789-68-6	EEC No. 232-185-0	98	7789-68-6	R14 C; R34	Skin Corr. 1B (H314) (EUH014)	-

## 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

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.
Ingestion	Do not induce vomiting. Call a physician immediately.
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.
Notes to Physician	Treat symptomatically

## **SECTION 5. FIRE-FIGHTING MEASURES**

#### **Extinguishing media**

#### Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>). Dry chemical. chemical foam.

Extinguishing media which must not be used for safety reasons Water.

#### Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

#### 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**

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**

Do not breathe dust. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only in area provided with appropriate exhaust ventilation.





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#### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Corrosives area.

#### 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 Appearance Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Water Solubility Molecular Formula Molecular Weight Low melting solid, Solid Orange 230°C / 446°F 39°C / 102.2°F No information available. No information available. reacts Ti Br4 367.5

## SECTION 10. STABILITY AND REACTIVITY





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## SECTION 10. STABILITY AND REACTIVITY

## Reactivity

#### **Chemical Stability**

Stable under normal conditions. Moisture sensitive.

#### **Possibility of Hazardous Reactions**

Hazardous Polymerization Hazardous Reactions . Hazardous polymerization does not occur. No information available.

#### **Conditions to Avoid**

Incompatible products, Exposure to moist air or water.

#### **Incompatible Materials**

Water, Strong oxidizing agents, Strong bases.

#### **Hazardous Decomposition Products**

Hydrogen halides.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on Toxicological Effects	<u>3</u>
Acute Toxicity	
Product Information	No acute toxicity information is available for this product
Component Information	
<u>Chronic Toxicity</u> Carcinogenicity	There are no known carcinogenic chemicals in this product
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 fully investigated. None known





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## **SECTION 12. ECOLOGICAL INFORMATION**

#### 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 assessment

#### Other adverse effects

No information available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

# Waste treatment methods Waste from Residues / Unused Products Contaminated Packaging Empty containers should be taken to local recyclers for disposal

## SECTION 14. TRANSPORT INFORMATION

#### IMDG/IMO

UN-No	3260
Hazard Class	8
Packing Group	II
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

#### ADR

UN-No	3260
Hazard Class	8
Packing Group	II
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.





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## SECTION 14. TRANSPORT INFORMATION

IATA

UN-No Hazard Class Packing Group Proper Shipping Name 3260 8 II CORROSIVE SOLID, ACIDIC, INORGANIC, 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
	232-185-0			-	-	-	-	-	-	-	Х

#### 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 R14 - Reacts violently with water R34 - Causes burns

Revision Date06-Feb-2012Revision SummaryNot applicableThis safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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## **SECTION 16. OTHER INFORMATION**

#### 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