

Revision Date 24-Nov-2010 Revision Number 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Description: 4-Nitrobenzenesulfonyl chloride

Cat No. 415850000; 415850050; 415850250; 415851000

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals
Uses advised against No 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: 800-ACROS-01 For information in Europe, call: +32 14 57 52 11

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

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

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Skin Corrosion / irritation	Category 1 B
Chronic aquatic toxicity	Category 3

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

For the full text of the R phrases mentioned in this Section, see Section 16

Symbol(s) C - Corrosive

R -phrase(s) R14 - Reacts violently with water

R29 - Contact with water liberates toxic gas

R34 - Causes burns

Risk Combination Phrases R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment



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### 2. HAZARDS IDENTIFICATION

#### **Label Elements**



#### Signal Word

#### **Danger**

#### **Hazard Statements**

H412 - Harmful to aquatic life with long lasting effects

H314 - Causes severe skin burns and eye damage

EUH029 - Contact with water liberates toxic gas

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

P273 - Avoid release to the environment

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

#### Other Hazards

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
Benzenesulfonyl chloride, 4-nitro-	EEC No. 202-	95	98-74-8	R14	Skin Corr. 1B	-
98-74-8	697-9			R29	(H314)	
				C; R34	Aquatic Chronic	
				R52/53	3 (H412)	
					(EUH014)	
					(EUH029)	
					,	

For the full text of the R phrases mentioned in this Section, see Section 16

# 4. FIRST AID MEASURES



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# 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

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes Immediate medical attention is required

**Ingestion** Do not induce vomiting Never give anything by mouth to an unconscious person Drink plenty of

water Call a physician immediately 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 Immediate medical attention is required

Notes to Physician Treat symptomatically

# 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

Contact with water liberates toxic gas Water reactive Produce flammable gases on contact with water

Advice for fire-fighters

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

#### 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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Avoid dust formation. Keep in suitable and closed containers for disposal.

# 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 Use only in area provided with appropriate exhaust ventilation Keep under nitrogen



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Conditions for safe storage, including any incompatibilities

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

Specific End Uses

# 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.

**Derived No Effect Level (DNEL) Predicted No Effect Concentration** 

(PNEC)

No information available.

**Exposure controls Engineering Measures** 

Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and

safety showers are close to the workstation location

Personal protective equipment

**Eve Protection Hand Protection** 

Protective gloves

Goggles

No information available.

Skin and body protection

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 **Respiratory Protection** 

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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Powder, Solid **Appearance** Dark yellow

No information available. Hq **Vapor Density** No information available.

**Boiling Point/Range** 143 - 144°C / 289.4 - 291.2°F@ 2 hPa **Melting Point/Range** 75 - 80°C / 167 - 176°F

Flash Point No information available.

**Water Solubility** Insoluble Molecular Formula C6 H4 CI N O4 S

**Molecular Weight** 221.62

### 10. STABILITY AND REACTIVITY

Reactivity

**Chemical Stability** 

Stable under normal conditions. heat sensitive. Moisture sensitive.



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Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** . No information available.

**Conditions to Avoid** 

Temperatures above .?1°C, Incompatible products, Exposure to moist air or water.

**Incompatible Materials** 

Strong oxidizing agents, Strong bases. Hazardous Decomposition Products

Hydrogen chloride gas. Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides.

# 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

SensitizationNo information available.Mutagenic EffectsNo information availableReproductive EffectsNo information available.Developmental EffectsNo information available.Target OrgansNo information available.

Other Adverse Effects The toxicological properties have not been fully investigated.

**Endocrine Disruptor Information** None known

### 12. ECOLOGICAL INFORMATION

**Toxicity** 

**Ecotoxicity effects**Contains no substances known to be hazardous to the environment or that are not degradable

in waste water treatment plants

Persistence and degradability

Not readily biodegradable

Bioaccumulative potential

No information available.

Mobility in soil



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# 12. ECOLOGICAL INFORMATION

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused

**Products** 

**Contaminated Packaging** 

Dispose of in accordance with local regulations

Empty containers should be taken for local recycling, recovery or waste disposal

# 14. TRANSPORT INFORMATION

IMDG/IMO

**UN-No** 3261 **Hazard Class** 8 Ш

**Packing Group** 

**Proper Shipping Name** 

CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

**ADR** 

**UN-No** 3261 **Hazard Class** 8 **Packing Group** 

**Proper Shipping Name** 

CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

**IATA** 

**UN-No** 3261 **Hazard Class** 8 Packing Group

**Proper Shipping Name** 

CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.\*

# 15. REGULATORY INFORMATION

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

# International Inventories

international inventories											
Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Benzenesulfonyl chloride, 4-nitro-	202-697-9	-		X	X	-	Х	X	X	-	KE-25974
										1	X

### Legend



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

**EINECS/ELINCS** - European Inventory Lists

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**

# **16. OTHER INFORMATION**

#### Text of R phrases mentioned in Section 2-3

R14 - Reacts violently with water

R29 - Contact with water liberates toxic gas

R34 - Causes burns

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision Date 24-Nov-2010 Revision Summary Not applicable

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

Disclaimer

The information provided on this SDS 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**