

Revision Date 21-Feb-2012

Revision Number 4

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

**Product Identifier**

**Product Description:** 2-Nitrobenzenesulfonyl chloride  
**Cat No.** 161330000; 161330100; 161330500  
**Synonyms** 2-Nitrophenylsulfonyl chloride; NBSC

**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 Pharmaceuticaaan 3a  
 2440 Geel, Belgium

**E-mail address** [begele.sdsdesk@thermofisher.com](mailto:begele.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 16*

**Symbol(s)** C - Corrosive  
**R-phrases(s)** R34 - Causes burns

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**SECTION 2. HAZARDS IDENTIFICATION**

**Label Elements**



**Signal Word**

**Danger**

**Hazard Statements**

H314 - Causes severe skin burns and eye damage

**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

**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.
Benzenesulfenyl chloride, 2-nitro-7669-54-7	EEC No. 231-644-2	99	7669-54-7	C; R34	Skin Corr. 1B (H314)	-

**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.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.



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<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If possible drink milk afterwards.
<b>Inhalation</b>	Remove from exposure, lie down. Move to fresh air.
<b>Notes to Physician</b>	Treat symptomatically

**SECTION 5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

**Suitable Extinguishing Media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. alcohol-resistant foam.

**Extinguishing media which must not be used for safety reasons**

No information available.

**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.

**SECTION 7. HANDLING AND STORAGE**

**Precautions for Safe Handling**

Ensure adequate ventilation

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

Keep refrigerated.

**Specific End Uses**

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<b>SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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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** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

Exposure controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas

**Personal protective equipment**

**Eye Protection** Safety glasses with side-shields Goggles

**Hand Protection** Protective gloves

**Skin and body protection** Long sleeved clothing

**Respiratory Protection** Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** No information available.

<b>SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Physical State</b>	Solid
<b>Appearance</b>	Yellow
<b>odor</b>	Stench
<b>pH</b>	No information available.
<b>Vapor Density</b>	6.54
<b>Boiling Point/Range</b>	No information available.
<b>Melting Point/Range</b>	70 - 75°C / 158 - 167°F
<b>Flash Point</b>	No information available.
<b>Autoignition Temperature</b>	No information available.
<b>Water Solubility</b>	decomposes
<b>Molecular Formula</b>	C6 H4 Cl N O2 S
<b>Molecular Weight</b>	189.62

<b>SECTION 10. STABILITY AND REACTIVITY</b>
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Reactivity
Chemical Stability

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Stable under normal conditions. Moisture sensitive.

**Possibility of Hazardous Reactions**

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

**Conditions to Avoid**

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.

**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

**Sensitization** No information available.  
**Mutagenic Effects** No information available  
**Reproductive Effects** No information available.  
**Developmental Effects** No information available.  
**Target Organs** No information available.  
**Endocrine Disruptor Information** None known

**SECTION 12. ECOLOGICAL INFORMATION****Toxicity**

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**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**

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**

Dispose of in accordance with local regulations

**Contaminated Packaging**

Empty containers should be taken to local recyclers for disposal

**SECTION 14. TRANSPORT INFORMATION****IMDG/IMO**

UN-No	1759
Hazard Class	8
Packing Group	II
Proper Shipping Name	CORROSIVE SOLID, N.O.S.

**ADR**

UN-No	1759
Hazard Class	8
Packing Group	II
Proper Shipping Name	CORROSIVE SOLID, N.O.S.

**IATA**

UN-No	1759
Hazard Class	8
Packing Group	II

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**SECTION 14. TRANSPORT INFORMATION**

Proper Shipping Name CORROSIVE 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
Benzenesulfenyl chloride, 2-nitro-	231-644-2	-		X	-	X	X	-	-	-	-

**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**  
 R34 - Causes burns

Revision Date 21-Feb-2012  
 Revision Summary 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.



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End of Safety Data Sheet