# SAFETY DATA SHEET



Creation Date 13-Mar-2014	Revision Date 13-Mar-2014	Revision Number 1		
SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING				
1.1. Product identifier				
Product Description: Cat No. : CAS-No Molecular Formula 1.2. Relevant identified uses of the s	2-Pyridinesulfonic acid 455760000; 455760010; 455760050 15103-48-7 C5 H5 N O3 S ubstance or mixture and uses advised against			
Recommended Use Uses advised against	Laboratory chemicals No Information available			
1.3. Details of the supplier of the safe	ety data sheet			
Company	Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium			
E-mail address	begel.sdsdesk@thermofisher.com			
1.4. Emergency telephone number         For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11           Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99         CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887				
	SECTION 2: HAZARDS IDENTIFICATION			

#### 2.1. Classification of the substance or mixture

CI P	Classification	- Regulation	(FC) N	lo 1272/2008
	olassinoution	Regulation		

Physical hazards

Based on available data, the classification criteria are not met

Health hazards Skin Corrosion/irritation Serious Eye Damage/Eye Irritation

Category 1 C Category 1

Environmental hazards Based on available data, the classification criteria are not met

Classification according to EU Directives 67/548/EEC or 1999/45/ECSymbol(s)C - CorrosiveR-phrase(s)R34 - Causes burns

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

#### 2.2. Label elements

#### 2-Pyridinesulfonic acid



#### Signal Word

Danger

#### Hazard Statements

H314 - Causes severe skin burns and eye damage

#### **Precautionary Statements**

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

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

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

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

#### 2.3. Other hazards

No information available.

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substances

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008	DSD Classification - 67/548/EEC
2-Pyridinesulfonic acid	15103-48-7		>95	Skin Corr. 1C (H314) Eye Dam. 1 (H318)	C; R34

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

# **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

	-
General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
Ingestion	Immediate medical attention is required. Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination

#### 4.2. Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. . Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

# **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

#### Suitable Extinguishing Media

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

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

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

The product causes burns of eyes, skin and mucous membranes.

#### **Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### 6.2. Environmental precautions

Do not allow material to contaminate ground water system. Should not be released into the environment.

#### 6.3. Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

# **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe dust. Do not ingest.

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

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

#### 7.3. Specific end use(s)

Use in laboratories

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. 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.

#### Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

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

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral				
Dermal				
Inhalation				

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

#### 8.2. Exposure controls

#### **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equ Eye Protection		Goggles (European standard - EN 166)		
Hand Protection	Protec	ctive gloves		
Glove material Natural rubber Butyl rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness -	EU standard EN 374	Glove comments (minimum requirement)

#### Skin and body protection

Long sleeved clothing

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.

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Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators To protect the wearer, respiratory protective equipment must be the correct fit and be used a maintained properly.
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits ar exceeded or if irritation or other symptoms are experienced <b>Recommended Filter type:</b> Particulates filter conforming to EN 143.
Small scale/Laboratory use	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. <b>Recommended half mask:-</b> Valve filtering: EN405 or Half mask: EN140 plus filter, EN 141 When RPE is used a face piece Fit Test should be conducted.
lygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
invironmental exposure controls	No information available.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

Appearance Physical State Odor Odor Threshold pH	Solid. No information available No data available No information available.	
Melting Point/Range Softening Point Boiling Point/Range Flash Point	244 - 249°C / 471 - 480°F No data available No information available. No information available.	Method - No information available.
Evaporation Rate Flammability (solid,gas) Explosion Limits	Not applicable No information available. No data available.	Solid
Vapor Pressure Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents	No data available Not applicable No data available No data available Very soluble No information available.	Solid
Partition Coefficient (n- octanol/water)	<b>Component</b> 2-Pyridinesulfonic acid	<b>log Pow</b> -2.85
Autoignition Temperature Decomposition temperature Viscosity Explosive Properties Oxidizing Properties	Not applicable No data available Not applicable No information available. No information available.	Solid
9.2. Other information	C5 H5 N O3 S	
Molecular Formula Molecular Weight	159.16	

# SECTION 10: STABILITY AND REACTIVITY 10.1. Reactivity None known, based on information available. 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous reactions Stable under normal conditions. 10.3. Possibility of hazardous reactions Hazardous polymerization does not occur. Hazardous Reactions Hazardous polymerization does not occur. None under normal processing. None under normal processing. 10.4. Conditions to avoid Incompatible products, Excess heat. 10.5. Incompatible materials None known 10.6. Hazardous decomposition products Excess heat.

Thermal decomposition can lead to release of irritating gases and vapors.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

# 11.1. Information on toxicological effects

#### **Product Information**

(a) acute toxicity; Oral Dermal Inhalation	No data available No data available No data available
(b) skin corrosion/irritation;	Category 1 C
(c) serious eye damage/irritation;	Category 1
(d) respiratory or skin sensitization; Respiratory Skin	No data available No data available
(e) germ cell mutagenicity;	No data available
(f) carcinogenicity;	No data available
	There are no known carcinogenic chemicals in this product
(g) reproductive toxicity;	No data available
(h) STOT-single exposure;	No data available
(i) STOT-repeated exposure;	No data available
Target Organs	No information available.
(j) aspiration hazard;	Not applicable Solid

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Symptoms / effects, both acute and delayed

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

# **SECTION 12: ECOLOGICAL INFORMATION**

12.1. Toxicity **Ecotoxicity effects** Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants 12.2. Persistence and degradability Persistence Persistence is unlikely. 12.3. Bioaccumulative potential Bioaccumulation is unlikely Component log Pow **Bioconcentration factor (BCF)** 2-Pyridinesulfonic acid -2.85 No data available 12.4. Mobility in soil No information available. No data available for assessment 12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects **Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors **Persistent Organic Pollutant** This product does not contain any known or suspected substance **Ozone Depletion Potential** This product does not contain any known or suspected substance SECTION 13: DISPOSAL CONSIDERATIONS 13.1. Waste treatment methods Waste from Residues / Unused Waste is classified as hazardous. Dispose of in accordance with the European Directives on

Products	waste and hazardous waste. Dispose of in accordance with local regulations.
Contaminated Packaging	Dispose of this container to hazardous or special waste collection point
European Waste Catalogue (EWC)	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not dispose of waste into sewer. Large amounts will affect pH and harm aquatic organisms.

# **SECTION 14: TRANSPORT INFORMATION**

# IMDG/IMO

14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group ADR	UN2585 ARYLSULPHONIC ACIDS, SOLID 8 III
14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group IATA	UN2585 ARYLSULPHONIC ACIDS, SOLID 8 III
14.1. UN number	UN2585

2-Pyridinesulfonic acid

14.2. UN proper shipping name	ARYLSULPHONIC ACIDS, SOLID
14.3. Transport hazard class(es)	8
14.4. Packing group	III
14.5. Environmental hazards	No hazards identified
14.6. Special precautions for user	No special precautions required

14.7. Transport in bulk according to Not applicable, packaged goods Annex II of MARPOL73/78 and the **IBC Code** 

# **SECTION 15: REGULATORY INFORMATION**

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

International Inventories X = listed

#### **National Regulations**

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment Take note of Dir 94/33/EC on the protection of young people at work Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## **SECTION 16: OTHER INFORMATION**

#### Full text of R-phrases referred to under sections 2 and 3 R34 - Causes burns

#### Full text of H-Statements referred to under sections 2 and 3

H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage

#### Legend

**CAS** - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - China Inventory of Existing Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

WEL - Workplace Exposure Limit

- ACGIH American Conference of Industrial Hygiene
- **DNEL** Derived No Effect Level
- **RPE** Respiratory Protective Equipment
- LC50 Lethal Concentration 50%
- NOEC No Observed Effect Concentration
- PBT Persistent, Bioaccumulative, Toxic

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime

**Dangerous Goods Code** 

**OECD** - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

- AICS Australian Inventory of Chemical Substances
- NZIOC New Zealand Inventory of Chemicals

TWA - Time Weighted Average

- IARC International Agency for Research on Cancer
- **PNEC** Predicted No Effect Concentration
- LD50 Lethal Dose 50%
- EC50 Effective Concentration 50%
- POW Partition coefficient Octanol:Water
- vPvB very Persistent, very Bioaccumulative

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC - Volatile Organic Compounds

#### 2-Pyridinesulfonic acid

#### Key literature references and sources for data Suppliers safety data sheet, Chemadvisor - LOLI,

Merck index, RTECS

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Creation Date	13-Mar-2014
Revision Date	13-Mar-2014
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.

# End of Safety Data Sheet