

Revision Date 16-Nov-2010

#### **Revision Number 1**

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

**Product Identifier** 

Product Description: Formic acid hydrazide

Cat No. 376060000; 376060250; 376061000

**Synonyms** Formylhydrazine

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: 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 1272/20	800
----------------------------	-----

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity - (single exposure)	Category 3

# 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) Xn - Harmful

R-phrase(s) none

Risk Combination Phrases R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

R36/37/38 - Irritating to eyes, respiratory system and skin



Formic acid hydrazide Revision Date 16-Nov-2010

# **SECTION 2. HAZARDS IDENTIFICATION**

#### **Label Elements**



# Signal Word Warning

**Hazard Statements** 

H302 - Harmful if swallowed

H335 - May cause respiratory irritation

H319 - Causes serious eye irritation

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H332 - Harmful if inhaled

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

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

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

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

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

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	CLP	REACH No.
				Classification	Classification - Regulation (EC)	
					No 1272/2008	



Formic acid hydrazide Revision Date 16-Nov-2010

Hydrazinecarboxaldehyde 624-84-0	EEC No. 210-867-9	95	624-84-0	Xn; R20/21/22 Xi; R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302) Acute Tox. 4 (H312)	·
					Acute Tox. 4 (H332)	

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. Obtain medical attention.

**Ingestion** Clean mouth with water. Get medical attention.

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



Revision Date 16-Nov-2010 Formic acid hydrazide

# **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**

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

## Conditions for safe storage, including any incompatibilities

Keep in a dry place. Keep container tightly closed. Keep refrigerated.

#### **Specific End Uses**

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

This product, as supplied, does not contain any hazardous materials with occupational **Exposure limits** 

exposure limits established by the region specific regulatory bodies.

This product, as supplied, does not contain any hazardous materials with biological limits **Biological limit values** 

established by the region specific regulatory bodies.

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

**Predicted No Effect Concentration** 

(PNEC)

**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

**Eye Protection** Goggles **Hand Protection** Protective gloves

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



Formic acid hydrazide Revision Date 16-Nov-2010

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** No information available.

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

Physical State Solid Appearance White

pH No information available.

Boiling Point/Range No information available.

Melting Point/Range 51 - 58°C / 123.8 - 136.4°F

Flash Point 112°C / 233.6°F

Autoignition Temperature

No information available.

Water SolubilitysolubleMolecular FormulaC H4 N2 OMolecular Weight60.06

# **SECTION 10. STABILITY AND REACTIVITY**

#### Reactivity

#### **Chemical Stability**

Hygroscopic.

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

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

No information available.

#### **Conditions to Avoid**

Incompatible products, Exposure to moist air or water.

### **Incompatible Materials**

Strong oxidizing agents, Strong bases.

### **Hazardous Decomposition Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

# **SECTION 11. TOXICOLOGICAL INFORMATION**

# Information on Toxicological Effects

## **Acute Toxicity**

**Product Information**No acute toxicity information is available for this product



Formic acid hydrazide Revision Date 16-Nov-2010

# **SECTION 11. TOXICOLOGICAL INFORMATION**

**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. See actual entry in RTECS for

complete information

Endocrine Disruptor Information None known

# **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

Dispose of in accordance with local regulations

**Products** 

Contaminated Packaging Empty containers should be taken to local recyclers for disposal



Formic acid hydrazide Revision Date 16-Nov-2010

\_\_\_\_

### **SECTION 14. TRANSPORT INFORMATION**

IMDG/IMO

UN-No 2811 Hazard Class 6.1 Packing Group III

Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S.

ADR

UN-No 2811 Hazard Class 6.1 Packing Group III

Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S.

**IATA** 

UN-No 2811 Hazard Class 6.1 Packing Group III

Proper Shipping Name TOXIC SOLID, ORGANIC, 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
Hydrazinecarboxaldehyde	210-867-9	-		Х	-	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**



Formic acid hydrazide Revision Date 16-Nov-2010

# **SECTION 16. OTHER INFORMATION**

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

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

R36/37/38 - Irritating to eyes, respiratory system and skin

Revision Date 16-Nov-2010

**Revision Summary** 

Reason for revision 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**