# SAFETY DATA SHEET



Revision Date 10-Nov-2010

**Revision Number** 1

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier	
Product Description:	
Cat No.	
Synonyms	

Ethyl trifluoroacetate 119020000; 119020250; 119021000 Trifluoroacetic Acid Ethyl Ester

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 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 2
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ systemic toxicity (single exposure)	Category 3
Flammable liquids.	Category 2

#### 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)
 F - Highly flammable

 Xi - Irritant
 Xi - Irritant

 R -phrase(s)
 R11 - Highly flammable

 Risk Combination Phrases
 R37/38 - Irritating to respiratory system and skin

# 2. HAZARDS IDENTIFICATION



Signal Word

Danger

#### **Hazard Statements**

- H335 May cause respiratory irritation
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H225 Highly flammable liquid and vapor

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

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

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

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

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P240 - Ground/Bond container and receiving equipment

#### **Other Hazards**

No information available.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
Acetic acid, trifluoro-, ethyl ester	EEC No. 206- 851-6	99		Xi; R37/38 Xi; R41;	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	

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

# 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 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

### 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 No information available.

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

Flammable Vapors may travel to source of ignition and flash back Containers may explode when heated

#### 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) Keep in suitable and closed containers for disposal Remove all sources of ignition Use spark-proof tools and explosion-proof equipment Do not let this chemical enter the environment

# 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 Do not ingest Use explosion-proof equipment Use only non-sparking tools

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

Keep in a dry, cool and well-ventilated place Keep container tightly closed Keep away from heat and sources of ignition Flammables 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. No information available.
Exposure controls Engineering Measures	Use explosion-proof electrical/ventilating/lighting/equipment Ensure that eyewash stations and safety showers are close to the workstation location
Personal protective equipment	
Eye Protection Hand Protection Skin and body protection Respiratory Protection	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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Appearance
odor
рН
Vapor Pressure
Vapor Density
<b>Boiling Point/Range</b>
Melting Point/Range
Flash Point
Water Solubility
Specific Gravity
Molecular Formula
Molecular Weight

Liquid Colorless odorless No information available. No information available. No information available. 60 - 62°C / 140 - 143.6°F@ 760 mmHg -78°C / -108.4°F -1°C / 30.2°F Hydrolysis 1.194 C4 H5 F3 O2 142.08

# **10. STABILITY AND REACTIVITY**

#### Reactivity Chemical Stability Stable under normal conditions.

#### Possibility of Hazardous Reactions Hazardous Polymerization Hazardous Reactions.

No information available. No information available.

#### **Conditions to Avoid**

Keep away from open flames, hot surfaces and sources of ignition, Incompatible products, Exposure to moist air or water.

#### Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents. <u>Hazardous Decomposition Products</u> Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Gaseous hydrogen fluoride (HF).

### **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.
Other Adverse Effects	The toxicological properties have not been fully investigated.
Endocrine Disruptor Information	None known

# **12. ECOLOGICAL INFORMATION**

Toxicity							
Ecotoxicity effects Do not empty into drains							
Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea			
Acetic acid, trifluoro-,		7790-12800 mg/L LC50					
ethyl ester		96 h					

 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

### **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

13. DISPOSAL CONSIDERATIONS									
Waste from Residues / Unused	Dispose of in accordance with local regulations								
Products	Empty containers should be taken for legal reguling, recovery or waste dispessel								
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal								
14. TRANSPORT INFORMATION									
IMDG/IMO									
UN-No	3272								
Hazard Class Subsidiary Hazard Class	3 6.1								
Packing Group									
Proper Shipping Name	ESTERS, N.O.S.								
ADR									
UN-No	3272								
Hazard Class	3								
Packing Group	Î.								
Proper Shipping Name	ESTERS, N.O.S.								
ΙΑΤΑ									
UN-No	3272								
Hazard Class	3								
Subsidiary Hazard Class	6.1								
Packing Group	II								
Proper Shipping Name	ESTERS, N.O.S.*								

### **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
Acetic acid, trifluoro-, ethyl ester	206-851-6	-		Х	-	Х	Х	Х	Х	-	-

### Legend

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

R11 - Highly flammable R41 - Risk of serious damage to eyes R37/38 - Irritating to respiratory system and skin

 Revision Date
 10-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