

SAFETY DATA SHEET

Revision Date 10-Nov-2010

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Description: Trifluoroacetic acid 2,2,2-trifluoroethyl ester

 Cat No.
 385320000; 385320250; 385321000

 Synonyms
 2,2,2-Trifluoroethyl trifluoroacetate

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
Serious Eye Damage/Eye Irritation	Category 1
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

C - Corrosive

R -phrase(s) R11 - Highly flammable

R34 - Causes burns



2. HAZARDS IDENTIFICATION

Label Elements



Signal Word

Danger

Hazard Statements

H318 - Causes serious eye damage

H314 - Causes severe skin burns and eye damage

H225 - Highly flammable liquid and vapor

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

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.
2,2,2-Trifluoroethyl trifluoroacetate	EEC No. 206-	98	407-38-5	F; R11	Skin Corr. 1B	-
407-38-5	985-5			C; R34;	(H314)	

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

4. FIRST AID MEASURES

Description of first aid measures



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Eye Contact Immediate medical attention is required Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes

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

shoes Immediate medical attention is required

Ingestion Do not induce vomiting Call a physician immediately

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 (CO₂) 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

Advice for fire-fighters

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

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.

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 get in eyes, on skin, or on clothing Use only in area provided with appropriate exhaust ventilation 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 Corrosives area 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

No information available. No information available.

(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 Hand Protection Goggles Protective gloves

Skin and body protection **Respiratory 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 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

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid **Appearance** Colorless odor aromatic

No information available. Ηq **Vapor Pressure** 172.7 mmHg @ 20 °C **Boiling Point/Range** 55°C / 131°F@ 760 mmHg

Melting Point/Range -65°C / -85°F Flash Point 0°C / 32°F **Water Solubility IMMISCIBLE Specific Gravity** 1.464 Molecular Formula C4 H2 F6 O2 **Molecular Weight** 196.05

10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability Moisture sensitive.

Possibility of Hazardous Reactions

Hazardous Polymerization No information available. Hazardous Reactions. 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.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Gaseous hydrogen fluoride (HF).

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product InformationNo 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 effectsContains 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

13. DISPOSAL CONSIDERATIONS



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Waste treatment methods

Waste from Residues / Unused

Products

Dispose of in accordance with local regulations

Contaminated Packaging

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

14. TRANSPORT INFORMATION

IMDG/IMO

UN-No 2924 **Hazard Class** 3 8 **Subsidiary Hazard Class Packing Group** Ш

Proper Shipping Name

FLAMMABLE LIQUID, CORROSIVE, N.O.S.

ADR

2924 **UN-No Hazard Class** 3 **Subsidiary Class** 8 **Packing Group**

Proper Shipping Name FLAMMABLE LIQUID, CORROSIVE, N.O.S.

IATA

UN-No 2924 **Hazard Class** 3 **Subsidiary Hazard Class** 8 **Packing Group**

FLAMMABLE LIQUID, CORROSIVE, N.O.S.* **Proper Shipping Name**

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
2,2,2-Trifluoroethyl trifluoroacetate	206-985-5	-		-	-	-	-	-	-	-	-

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 R34 - Causes burns

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
