



Revision Date 16-Nov-2010

Revision Number 1

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

Product Identifier Product Description: Cat No.

Methyl 2-chloroacetoacetate 179900100; 179900000

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 sheetCompanyAcros Organics BVBAJanssen Pharmaceuticalaan 3a2440 Geel, BelgiumE-mail addressbegel.sdsdess

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 1272/2008

Acute oral toxicity	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 16Symbol(s)Xn - HarmfulR-phrase(s)R22 - Harmful if swallowedRisk Combination PhrasesR36/37/38 - Irritating to eyes, respiratory system and skin





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SECTION 2. HAZARDS IDENTIFICATION



Signal WordWarningHazard StatementsH302 - Harmful if swallowedH315 - Causes skin irritationH335 - May cause respiratory irritationH319 - Causes serious eye irritation

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

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
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

Lachrymator (substance which increases the flow of tears).

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.
Butanoic acid, 2-chloro-3-oxo-, methyl ester 4755-81-1	EEC No. 225-286-6	95	4755-81-1	Xn; R22 Xi; R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	-





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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 (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

Combustible material. Flammable.

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





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Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

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. Use only in area provided with appropriate exhaust ventilation.

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.

Specific End Uses

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance odor Liquid Yellow odorless





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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

pH Vapor Pressure Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature

Explosion Limits Lower Water Solubility Specific Gravity Molecular Formula Molecular Weight 3 5% aq. solution 1 mbar @ 20 °C 137°C / 278.6°F@ 760 mmHg -33°C / -27.4°F 72°C / 161.6°F 220°C / 428°F

2.3 50 g/L (20°C) 1.240 C5 H7 CI O3 150.56

SECTION 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

Incompatible products.

Incompatible Materials

Acids, Bases, Reducing agents.

Hazardous Decomposition Products

Hydrogen chloride gas. Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity Product Information

No acute toxicity information is available for this product

Component Information





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SECTION 11. TOXICOLOGICAL INFORMATION

Chronic Toxicity Carcinogenicity

There are no known carcinogenic chemicals in this product

Sensitization Mutagenic Effects Reproductive Effects Developmental Effects Target Organs Other Adverse Effects Endocrine Disruptor Information No information available. No information available No information available. No information available. No information available. The toxicological properties have not been fully investigated. None known

SECTION 12. ECOLOGICAL INFORMATION

Toxicity 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





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SECTION 14. TRANSPORT INFORMATION						
UN-No	2810					
Hazard Class	6.1					
Packing Group	111					
Proper Shipping Name	TOXIC LIQUID, ORGANIC, N.O.S.					
ADR						
UN-No	2810					
Hazard Class	6.1					
Packing Group						
Proper Shipping Name	TOXIC LIQUID, ORGANIC, N.O.S.					
ΙΑΤΑ						
	2010					

UN-No	2810
Hazard Class	6.1
Packing Group	III
Proper Shipping Name	TOXIC LIQUID, 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
Butanoic acid, 2-chloro-3-oxo-,	225-286-6	-		Х	-	Х	Х	-	-	Х	-
methyl ester											

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



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SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3 R22 - Harmful if swallowed R36/37/38 - Irritating to eyes, respiratory system and skin

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 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