

Creation Date 07-Apr-2014 Revision Date 07-Apr-2014 Revision Number 1

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

# 1.1. Product identifier

Product Description: Aldicarb

Cat No.: 456110000; 456110010; 456110050

Synonyms O-(Methylcarbamoyl)-2-methyl-2-(methylthio)propionaldehyd-oxime

**CÁS-No** 116-06-3 **EC-No.** 204-123-2 **Molecular Formula** C7 H14 N2 O2 S

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals
Uses advised against No Information available

### 1.3. 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

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

# CLP Classification - Regulation (EC) No 1272/2008

### Physical hazards

Based on available data, the classification criteria are not met

**Health hazards** 

Acute oral toxicityCategory 1Acute dermal toxicityCategory 3Acute Inhalation Toxicity - Dusts and MistsCategory 2

**Environmental hazards** 

Acute aquatic toxicity

Category 1

Category 1

Category 1

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Symbol(s) T+ - Very toxic

N - Dangerous for the environment

**SECTION 2: HAZARDS IDENTIFICATION** 

**R-phrase(s)** R24 - Toxic in contact with skin

R26/28 - Very toxic by inhalation and if swallowed

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment

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

### 2.2. Label elements



Signal Word Danger

### **Hazard Statements**

H300 - Fatal if swallowed

H311 - Toxic in contact with skin

H330 - Fatal if inhaled

H410 - Very toxic to aquatic life with long lasting effects

### **Precautionary Statements**

P330 - Rinse mouth

P280 - Wear protective gloves/ protective clothing

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

P310 - Immediately call a POISON CENTER or doctor/ physician

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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

### 2.3. Other hazards

No information available.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008	DSD Classification - 67/548/EEC
Aldicarb	116-06-3	EEC No. 204-123-2	>95	Acute Tox. 1 (H300) Acute Tox. 2 (H330) Acute Tox. 3 (H311) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	T; R24 T+; R26/28 N; R50-53

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 Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the

case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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**Skin Contact**Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention

is required.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation

if victim ingested or inhaled the substance; induce artificial respiration with a respiratory

medical device. Immediate medical attention is required.

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

No information available

### 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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Extinguishing media which must not be used for safety reasons

No information available.

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

Do not allow run-off from fire fighting to enter drains or water courses.

### **Hazardous Combustion Products**

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

### 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

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid dust formation.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

### 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

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

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

### 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 (PNEC)

No information available.

# 8.2. Exposure controls

### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas

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 equipment

**Eye Protection** Safety glasses with side-shields (European standard - EN 166)

Hand Protection Protective gloves

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Glove material Glove thickness **EU** standard Breakthrough time **Glove comments** See manufacturers Natural rubber EN 374 (minimum requirement) Nitrile rubber recommendations Neoprene PVC

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.

**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 and

maintained properly.

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are Large scale/emergency use

exceeded or if irritation or other symptoms are experienced..

Recommended Filter type: Particulates filter conforming to EN 143.

Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure Small scale/Laboratory use

limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent product from entering drains. Do not allow material to contaminate ground water

system. Local authorities should be advised if significant spillages cannot be contained.

Solid

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

White **Appearance Physical State** Solid.

Odor No information available **Odor Threshold** No data available

No information available. Ha

Melting Point/Range No data available **Softening Point** No data available

**Boiling Point/Range** No information available.

> 100°C / > 212°F **Flash Point** Method - No information available

Solid **Evaporation Rate** Not applicable

Flammability (solid,gas) No information available No data available.

**Explosion Limits** 

**Vapor Pressure** No data available **Vapor Density** Not applicable

Specific Gravity / Density No data available **Bulk Density** No data available

soluble **Water Solubility** 

Solubility in other solvents No information available

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Partition Coefficient (n-

octanol/water)

Autoignition Temperature

Not applicable

No data available

Viscosity Not applicable

Explosive PropertiesNo information availableOxidizing PropertiesNo information available

9.2. Other information

Molecular Formula C7 H14 N2 O2 S

Molecular Weight 190.26

# **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

Hazardous PolymerizationNo information availableHazardous ReactionsNone under normal processing.

10.4. Conditions to avoid

Incompatible products, Excess heat.

10.5. Incompatible materials

Strong oxidizing agents.

# 10.6. Hazardous decomposition products

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

Solid

# **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

### **Product Information**

(a) acute toxicity;

Oral Category 1
Dermal Category 3
Inhalation Category 2

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Aldicarb	0.46 mg/kg (Rat)		200 mg/m³ (Rat) 5 h		

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

RespiratoryNo data availableSkinNo data available

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(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen

 Component
 EU
 UK
 Germany
 IARC

 Aldicarb
 Group 2A

(g) reproductive toxicity;(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

Other Adverse Effects Symptoms / effects, both acute and delayed See actual entry in RTECS for complete information

No information available.

# **SECTION 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity Ecotoxicity effects

**cotoxicity effects**The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Aldicarb	0.034 - 0.079 mg/L LC50			
	96 h			
	0.394 - 0.796 mg/L LC50			
	96 h			
	0.751 - 0.987 mg/L LC50			
	96 h			
	0.13 mg/LLC50.96 h			

12.2. Persistence and degradability

Persistence

Degradation in sewage

treatment plant

Soluble in water, Persistence is unlikely, based on information available.

Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants.

**12.3. Bioaccumulative potential** Bioaccumulation is unlikely

12.4. Mobility in soil

The product is water soluble, and may spread in water systemsWill likely be mobile in the

environment due to its water solubility. Highly mobile in soils.

12.5. Results of PBT and vPvB

assessment

No data available for assessment

12.6. Other adverse effects

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

This product does not contain any known of suspected endocrine disruptors								
	Component	EU - Endocrine Disrupters	EU - Endocrine Disruptors -	Japan - Endocrine Disruptor				
	-	Candidate List	Evaluated Substances	Information				
	Δldicarh	Group III Chemical						

Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected substance This product does not contain any known or suspected substance

# **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Waste from Residues / Unused

**Products** 

Should not be released into the environment. Waste is classified as hazardous. Dispose of in

accordance with the European Directives on 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 Do not dispose of waste into sewer. 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 let this chemical

enter the environment.

# **SECTION 14: TRANSPORT INFORMATION**

### IMDG/IMO

14.1. UN number UN2811

14.2. UN proper shipping name Toxic solid, organic, n.o.s

14.3. Transport hazard class(es) 14.4. Packing group I

ADR

14.1. UN number UN2811

14.2. UN proper shipping name Toxic solid, organic, n.o.s

14.3. Transport hazard class(es) 6.1 14.4. Packing group I

**IATA** 

UN2811 14.1. UN number

14.2. UN proper shipping name Toxic solid, organic, n.o.s

14.3. Transport hazard class(es) 6.1 14.4. Packing group I

14.5. Environmental hazards Dangerous for the environment

14.6. Special precautions for user No special precautions required

14.7. Transport in bulk according to

Annex II of MARPOL73/78 and the

**IBC Code** 

Not applicable, packaged goods

# **SECTION 15: REGULATORY INFORMATION**

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

International Inventories X = listed

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Aldicarb	204-123-2	-		X	_	X	X	_	_	X	X

# **National Regulations**

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Component	France - INRS (Tables of occupational diseases)
Aldicarb	Tableaux des maladies professionnelles (TMP) - RG 34

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

R24 - Toxic in contact with skin

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R26/28 - Very toxic by inhalation and if swallowed

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

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

H300 - Fatal if swallowed

H310 - Fatal in contact with skin

H311 - Toxic in contact with skin

H330 - Fatal if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

### 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** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

WEL - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Hygienists

**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

### Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI. Merck index, **RTECS** 

### **Training Advice**

Chemical incident response training.

**Creation Date** 07-Apr-2014 07-Apr-2014 **Revision Date Revision Summary** Not applicable TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japanese 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

# 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**

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