

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Revision date : 21-09-2016  
Print date : 21-09-2016  
Version : 1.0.0

Cargo 3 GB

26801311

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

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

**Relevant identified uses**

Agriculture, forestry, fishery  
Plant protection products  
Molluscicide.  
(GR) Granular.

**1.3 Details of the supplier of the safety data sheet**

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

AAKO B.V.

**P.O. Box :** 205  
**Postal code/city :** 3830 AE Leusden The Netherlands  
**Telephone :** +31 (0) 33 494 84 94  
**Telefax :** +31 (0) 33 494 80 44  
**Information contact :** regulatory@aako.nl

**1.4 Emergency telephone number**

See supplier (Telephone number is accessible only during business hours).  
or  
Call local Poison Control Centre for assistance.  
DZ : +213 21 97 98 98  
EG : +20 2 6840902  
MA : +212 (0)37 68 64 64  
TN : +216 1 335500

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

None

**2.2 Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Precautionary statements**

P102 Keep out of reach of children.  
P501 Dispose of contents/container to industrial incineration plant.

**Special rules for supplemental label elements for certain mixtures**

EUH210 Safety data sheet available on request.

**Special rules for labelling of plant protection products**

EUH 401 - To avoid risks to human health and the environment, comply with the instructions for use.  
SP 1 - Do not contaminate water with the product or its container. Do not clean application equipment near surface water./ Avoid contamination via drains from farmyards and roads.

**2.3 Other hazards**

None under normal conditions.  
This product does not contain substance of very high concern (SVHC).

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**SECTION 3: Composition / information on ingredients**

**3.2 Mixtures**

**Hazardous ingredients**

METALDEHYDE ; EC No. : 203-600-2; CAS No. : 108-62-3 ; INDEX No. : 605-005-00-7  
Weight fraction : 2 - 6 %  
Classification 1272/2008 [CLP] : Flam. Sol. 2 ; H228 Acute Tox. 4 ; H302

**Additional information**

This product contains hazardous components.  
Full text of R-, H- and EUH-phrases: see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

When in doubt or if symptoms are observed, get medical advice.

**Following inhalation**

Remove victim out of the danger area.  
Seek medical attention immediately.

**In case of skin contact**

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.  
Seek medical attention if irritation develops.

**After eye contact**

Continue to rinse eye with clean water for 10 - 15 minutes, retracting eyelids often.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical attention if irritation develops.

**After ingestion**

Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.  
DO NOT INDUCE VOMITING.  
Seek medical advice.

**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**

Give supportive therapy.  
Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>).  
Foam.  
Dry extinguishing powder  
Water spray.

**5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products**

Thermal decomposition generates:  
Carbon oxides.

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**5.3 Advice for firefighters**

Take precautionary measures against static discharge.  
Cool endangered containers with water in case of fire.  
Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

**Special protective equipment for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. (see chapter 8).  
Do not breathe dust.  
Do not breathe dust or spray mist.  
Avoid dust production.  
Avoid contact with skin and eyes.

**6.2 Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3 Methods and material for containment and cleaning up**

Take up mechanically, placing in appropriate containers for disposal.  
Dispose in a safe manner in accordance with local/national regulations.

**6.4 Reference to other sections**

See protective measures under point 8 and 13.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Take precautionary measures against static discharge.  
Keep away from food, drink and animal feedingstuffs.  
Good ventilation of the workplace required.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep in original containers.  
Store in dry, cool, well-ventilated area.

**Hints on joint storage**

**Storage class :** 13

**Keep away from**

Heat.  
Sparks.  
Open flame.

**7.3 Specific end use(s)**

None

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

None

**8.2 Exposure controls**

**Personal protection equipment**

**Eye/face protection**

Wear appropriate personal eye protection depending on the work to be performed in accordance with EN166.

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Safety glasses

**Skin protection**

**Hand protection**

Wear appropriate chemical resistant gloves according EN 374 also with prolonged, direct contact (Recommended: Protective index 6).

Long-term exposure:

Breakthrough time: 480 min

Thickness of the material: 0,7 mm

Short-term exposure:

Breakthrough time: 30 min

Thickness of the material: 0,4 mm

Material:

PVC (Polyvinyl chloride).

Butyl caoutchouc (butyl rubber).

**Body protection**

Wear chemical resistant clothing (overalls, two-piece suit protecting against chemical splashes, or chemical resistant disposable overalls) according to EN 465.

Wear chemical resistant safety shoes according to EN 13832.

**Respiratory protection**

Wear approved full face mask dust respirator in accordance with DIN EN 136/140.

Filter type P1.

**General health and safety measures**

When using do not eat, drink, smoke, sniff.

Wash hands before breaks and after work.

Avoid contact with skin and eyes.

Good ventilation of the workplace required.

Avoid dust production.

Wash clothing before re-using.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Safety relevant basis data**

<b>Appearance :</b>		Pellets	
<b>Colour :</b>		blue	
<b>Odour :</b>		Slightly acrid.	
<b>pH :</b>	( 20 °C / 10 g/L )	9 - 9,5	CIPAC MT 75.3
<b>Flammability:</b>		Not flammable.	
<b>Oxidising properties:</b>		Not oxidising.	
<b>Explosive properties :</b>		Not explosive	
<b>Bulk density :</b>		600 - 650	kg/m <sup>3</sup>

**9.2 Other information**

None

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No information available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions.

**10.3 Possibility of hazardous reactions**

Vapours can form explosive mixtures with air.

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**10.4 Conditions to avoid**

Heat.  
Sources of ignition.  
Take precautionary measures against static discharge.

**10.5 Incompatible materials**

No information available.

**10.6 Hazardous decomposition products**

Thermal decomposition generates:  
Carbon oxides.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute effects**

**Acute oral toxicity**

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 423
Parameter :	LD50 ( METALDEHYDE ; CAS No. : 108-62-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	383 mg/kg

**Acute dermal toxicity**

Parameter :	LD50
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 402
Parameter :	LD50 ( METALDEHYDE ; CAS No. : 108-62-3 )
Exposure route :	Dermal
Species :	Rat
Effective dose :	5000 mg/kg

**Acute inhalation toxicity**

Parameter :	LC50 ( METALDEHYDE ; CAS No. : 108-62-3 )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	15 mg/l

**Irritant and corrosive effects**

**Primary irritation to the skin**

Parameter :	Skin corrosion/irritation
Result :	No information available.

**Irritation to eyes**

Parameter :	Serious eye damage/irritation
Result :	No information available.

**Sensitisation**

No information available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

No information available.

**STOT-single exposure**

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No information available.

**STOT-repeated exposure**

No information available.

**Aspiration hazard**

No information available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

**Acute (short-term) fish toxicity**

Parameter : LC50 ( METALDEHYDE ; CAS No. : 108-62-3 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Effective dose : 75 mg/l  
Exposure time : 96 h

**Acute (short-term) daphnia toxicity**

Parameter : EC50 ( METALDEHYDE ; CAS No. : 108-62-3 )  
Species : Daphnia magna (Big water flea)  
Effective dose : > 90 mg/l  
Exposure time : 48 h

**Acute (short-term) algae toxicity**

Parameter : EC50 ( METALDEHYDE ; CAS No. : 108-62-3 )  
Species : Desmodesmus subspicatus  
Effective dose : > 200 mg/l  
Exposure time : 72 h

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Other adverse effects**

No information available.

**12.7 Additional ecotoxicological information**

None

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Dispose in a safe manner in accordance with local/national regulations.

**SECTION 14: Transport information**

**14.1 UN number**

No dangerous goods in sense of this transport regulation.

**14.2 UN proper shipping name**

No dangerous goods in sense of this transport regulation.

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**14.3 Transport hazard class(es)**

No dangerous goods in sense of this transport regulation.

**14.4 Packing group**

No dangerous goods in sense of this transport regulation.

**14.5 Environmental hazards**

No dangerous goods in sense of this transport regulation.

**14.6 Special precautions for user**

None

**SECTION 15: Regulatory information**

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

Ensure all national/local regulations are observed.

**National regulations**

**Water hazard class (WGK)**

Class : 1 (Slightly hazardous to water) Classification according to VwVWS

**Other regulations, restrictions and prohibition regulations**

**15.2 Chemical Safety Assessment**

No information available.

**SECTION 16: Other information**

**16.1 Indication of changes**

None

**16.2 Abbreviations and acronyms**

a.i. = Active ingredient  
ACGIH = American Conference of Governmental Industrial Hygienists (US)  
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
AFFF = Aqueous Film Forming Foam  
AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)  
AOAC = AOAC International (formerly Association of Official Analytical Chemists)  
aq. = Aqueous  
ASTM = American Society of Testing and Materials (US)  
atm = Atmosphere(s)  
B.V. = Beperkt Vennootschap (Limited)  
BCF = Bioconcentration Factor  
bp = Boiling point at stated pressure  
bw = Body weight  
ca = (Circa) about  
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)  
CEFIC = European Chemical Industry Council (established 1972)  
CIPAC = Collaborative International Pesticides Analytical Council  
CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Conc = Concentration  
cP = CentiPoise  
cSt = Centistokes  
d = Day(s)  
DIN = Deutsches Institut für Normung e.V.  
DNEL = Derived No-Effect Level  
DT50 = Time for 50% loss; half-life

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EbC50 = Median effective concentration (biomass, e.g. of algae)  
EC = European Community; European Commission  
EC50 = Median effective concentration  
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)  
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)  
ErC50 = Median effective concentration (growth rate, e.g. of algae)  
EU = European Union  
EWC = European Waste Catalogue  
FAO = Food and Agriculture Organization (United Nations)  
GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International)  
h = Hour(s)  
hPa = HectoPascal (unit of pressure)  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IC50 = Concentration that produces 50% inhibition  
IMDG Code = International Maritime Dangerous Goods Code  
IMO = International Maritime Organization  
ISO = International Organization for Standardization  
IUCLID = International Uniform Chemical Information Database  
IUPAC = International Union of Pure and Applied Chemistry  
kg = Kilogram  
Kow = Distribution coefficient between n-octanol and water  
kPa = KiloPascal (unit of pressure)  
LC50 = Concentration required to kill 50% of test organisms  
LD50 = Dose required to kill 50% of test organisms  
LEL = Lower Explosive Limit/Lower Explosion Limit  
LOAEL = Lowest observed adverse effect level  
mg = Milligram  
min = Minute(s)  
ml = Milliliter  
mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)  
mp = Melting point  
MRL = Maximum Residue Limit  
MSDS = Material Safety Data Sheet  
n.o.s. = Not Otherwise Specified  
NIOSH = National Institute for Occupational Safety and Health (US)  
NOAEL = No Observed Adverse Effect Level  
NOEC = No observed effect concentration  
NOEL = No Observable Effect Level  
NOx = Oxides of Nitrogen  
OECD = Organization for Economic Cooperation and Development  
OEL = Occupational Exposure Limits  
Pa = Pascal (unit of pressure)  
PBT = Persistent, Bioaccumulative or Toxic  
pH = -log<sub>10</sub> hydrogen ion concentration  
pKa = -log<sub>10</sub> acid dissociation constant  
PNEC = Previsible Non Effect Concentration  
POPs = Persistent Organic Pollutants  
ppb = Parts per billion  
PPE = Personal Protection Equipment  
ppm = Parts per million  
ppt = Parts per trillion  
PVC = Polyvinyl Chloride  
QSAR = Quantitative Structure-Activity Relationship  
REACH = Registration, Evaluation and Authorization of Chemicals (EU, see NCP)  
SI = International System of Units  
STEL = Short-Term Exposure Limit



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tech. = Technical grade  
TSCA = Toxic Substances Control Act (US)  
TWA = Time-Weighted Average  
vPvB = Very Persistent and Very Bioaccumulative  
WHO = World Health Organization = OMS  
y = Year(s)

**16.3 Key literature references and sources for data**

None

**16.5 Relevant R-, H- and EUH-phrases (Number and full text)**

H228	Flammable solid.
H302	Harmful if swallowed.
R 11	Highly flammable.
R 22	Harmful if swallowed.

**16.6 Training advice**

None

**16.7 Additional information**

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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