

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



Revision date : 08-06-2015
Print date : 30-11-2015
Version : 1.0.0

Jadarme 25 WP

25301010

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
Insecticide
(WP) Wettable powder.

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]

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Category 1 ; Very toxic to aquatic life.
Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Category 1 ; Very toxic to aquatic life with long lasting effects.
Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.
Acute Tox. 3 ; H301 - Acute toxicity (oral) : Category 3 ; Toxic if swallowed.

2.2 Label elements

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

Hazard pictograms



Skull and crossbones (GHS06) · Environment (GHS09)

Signal word

Danger

Hazard components for labelling

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METHOMYL (ISO) ; CAS No. : 16752-77-5

Hazard statements

H301 Toxic if swallowed.
H332 Harmful if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.
P405 Store locked up.
P501 Dispose of contents/container to industrial incineration plant.

Special rules for labelling of plant protection products

EUH401 - 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.

2.3 Other hazards

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

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

METHOMYL (ISO) ; EC No. : 240-815-0; CAS No. : 16752-77-5 ; INDEX No. : 006-045-00-2
Weight fraction : 25 %
Classification 1272/2008 [CLP] : Acute Tox. 2 ; H300 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information

This product is considered to be hazardous.
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 ill effect or irritation develops.

After eye contact

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

After ingestion

Rinse mouth thoroughly with water.
DO NOT INDUCE VOMITING.
Never give anything by mouth to an unconscious person.
Give water to drink if victim is completely conscious/alert.

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4.2 Most important symptoms and effects, both acute and delayed

THIS COMPOUND INHIBITS CHOLINESTERASE.

Poisoning produces effects associated with anti cholinesterase activity which may include: constriction of pupils, blurred vision, weakness, headache, nausea, sweating, slow pulse, muscle twitching, shortness of breath.

4.3 Indication of any immediate medical attention and special treatment needed

Give supportive therapy.

Treat symptomatically. Antidote: Atropine sulfate.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry extinguishing powder
Water spray.

Unsuitable extinguishing media

Strong water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition generates:
Carbon oxides.
Nitrogen oxides.

5.3 Advice for firefighters

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.
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

For 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

Do not breathe dust.
Avoid contact with skin and eyes.
Good ventilation of the workplace required.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition. - No smoking.

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Dust may form explosive mixture in air.
Keep locked up.
Keep in original containers.
Keep container tightly closed.
Store in dry, cool, well-ventilated area.
Keep out of the reach of children.
Keep away from food, drink and animal feedingstuffs.

Hints on joint storage

Storage class : 6.1B

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

Safety glasses with side guards.

Skin protection

Hand protection

Wear suitable gloves resistant to chemical penetration.

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:

NBR (Nitrile rubber).

Body protection

Wear suitable protective clothing and chemical resistant boots.

Respiratory protection

During spraying, wear suitable respiratory equipment.

Filter type A2/P2

General health and safety measures

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

Wash hands before breaks and after work.

Handle in accordance with good industrial hygiene and safety procedures.

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Wash clothing before re-using.

Good ventilation of the workplace required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Physical state :

Powder

Colour :

colourless

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Odour :	Characteristic
Flash point :	not applicable
Decomposition temperature :	136 °C
Oxidising properties:	Not oxidising.
Explosive properties :	Not explosive
Bulk density :	400 - 450 kg/m ³
Solubility in water:	Dispersible

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

No information available.

10.4 Conditions to avoid

Heat.
Dust formation.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Thermal decomposition generates:
Carbon oxides.
Nitrogen oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter : LD50 (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Exposure route : Oral
Species : Rat
Effective dose : 17 mg/kg

Acute dermal toxicity

Parameter : LD50 (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Exposure route : Inhalation
Species : Rat
Effective dose : 0,272 mg/L
Exposure time : 4 h

Irritant and corrosive effects

Primary irritation to the skin

Parameter : Skin corrosion/irritation (METHOMYL (ISO) ; CAS No. : 16752-77-5)

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Result : Not irritant.

Irritation to eyes

Parameter : Serious eye damage/irritation (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Result : Not irritant.

Sensitisation

In case of skin contact

Parameter : Respiratory or skin sensitisation (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Species : Guinea pig
Result : This material was found to be non-sensitising in guinea pigs.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Parameter : Carcinogenicity (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Test result : Not carcinogenic.

Germ cell mutagenicity

In vitro mutagenicity

Parameter : Germ cell mutagenicity (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Test result : Not mutagenetic.

Reproductive toxicity

Adverse effects on sexual function and fertility

Parameter : Reproductive toxicity (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Test result : Not teratogenic.

STOT-single exposure

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 (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Effective dose : 3,4 mg/L

Acute (short-term) daphnia toxicity

Parameter : EC50 (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Species : Daphnia magna (Big water flea)
Effective dose : 31,7 µg/L

Terrestrial toxicity

Acute and subchronic bird toxicity

Parameter : LD50 (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Species : Anas platyrhynchos (maillard duck)
Effective dose : 15,9 mg/kg

Useful insect toxicity

Parameter : Useful insect toxicity (METHOMYL (ISO) ; CAS No. : 16752-77-5)
Species : Apis mellifera (bee)

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

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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

Land transport (ADR/RID) : UN2757

Sea transport (IMDG) : UN2757

14.2 UN proper shipping name

Land transport (ADR/RID)

UN2757 CARBAMATE PESTICIDE, SOLID, TOXIC (METHOMYL (ISO)), 6.1 , II, (D/E)

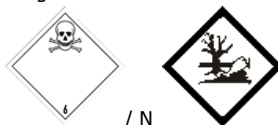
Sea transport (IMDG)

CARBAMATE PESTICIDE, SOLID, TOXIC (METHOMYL (ISO))

14.3 Transport hazard class(es)

Land transport (ADR/RID)

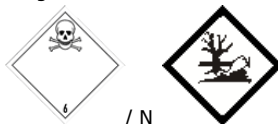
Class(es) : 6.1
Classification code : T7
Hazard identification number (Kemler No.) : 66
Tunnel restriction code : D/E
Special provisions : LQ 500 g
Hazard label(s) :



6.1 / N

Sea transport (IMDG)

Class(es) : 6.1
EmS-No. : F-A / S-A
Special provisions : LQ 500 g
Hazard label(s) :



6.1 / N

14.4 Packing group

Packaging group : II

14.5 Environmental hazards

Land transport (ADR/RID) : Yes

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Sea transport (IMDG) : Yes (P)

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 : nwg (Non-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
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)

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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 = -log₁₀ hydrogen ion concentration
pKa = -log₁₀ 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
tech. = Technical grade
TSCA = Toxic Substances Control Act (US)
TWA = Time-Weighted Average
vPvB = Very Persistent and Very Bioaccumulative
WHO = World Health Organization = OMS

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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)

H300	Fatal if swallowed.
H301	Toxic if swallowed.
H332	Harmful if inhaled.
H410	Very toxic to aquatic life with long lasting effects.
R 28	Very toxic if swallowed.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.6 Training advice

None

16.7 Additional information

None

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.
