

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 28 Feb 2025

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

1.1. Product name:

Halosulfuron-methyl

1.1. Catalog No.:

692642

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

HPC Standards GmbH
Am Wieseneck 7

04451 Cunnersdorf
Deutschland

Tel. +49 34291 3372-36
Fax. +49 34291 3372-39
contact@hpc-standards.com

1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1
Classification of the substance or mixture
Classification according
to Regulation (EC) No 1272/2008 [EU
-
GHS/CLP]
Acute aquatic toxicity
(
Category 1
)
Classification according to EU Directives 67/548/EEC or 1999/45/EC
V
ery toxic to aquatic organisms, may cause long
-
term adverse effects in the aquatic environment

2.2. Label elements

2.2.1. Pictogram



2.2.2.

2.2
Label elements
Labelling according Regulation (EC) No 1272/2008 [CLP]
Pictogram Signal word
Warning
Hazard statement(s)
H400
Very toxic to aquatic life.
Precautionary statement(s)
P273
Avoid release to the environment.
Supplemental Hazard
Statements
none
According to European Directive 67/548/EEC as amended.
Hazard symbol(s) R
-
phrase(s)
R50/53
Very toxic to aquatic organisms, may cause long
-
term adverse effects in the aquatic environment.
S
-
phrase(s)
S60
This material and its container must be disposed of as hazardous waste.
S61
Avoid release to the environment. Refer to special instructions/ Safety
data sheets.
Caution
-
substance not yet tested completely.
2.3
Other hazards
-
none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1
Substances
Synonyms
:
Methyl 3
-
chloro
-
5
-
(4,6
-
dimethoxy
-
2
-
pyrimidinylcarbamoylsulfamoyl)
-
1
-
methylpyrazole
-
4
-
carboxylate
Formula
:
C
13

H
15
CIN
6
O
7
S
Molecular Weight
:
434,81 g/mol
Component
Concentration
HALOSULFURON
-
METHYL
CAS
-
No.
100784
-
20
-
1
-

3.1.1. Formula

C₁₃H₁₅CIN₆O₇S

3.1.2. Molecular Weight (g/mol)

434.81

3.1.3. CAS-No.

100784-20-1

4. FIRST AID MEASURES

4.1

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water

as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3

Indication of any immediate medical attention and special treatment needed
no data available

5. FIRE-FIGHTING MEASURES

5.1

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol

-

resistant foam, dry chemical or carbon dioxide.

5.2

Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas, nitrogen oxides (NOx), Sulphur oxides

Nature of decomposition products not known.

Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas

5.3

Ad

vice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4

Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2

Environmental precautions

Preve

nt further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and sho

vel. Keep in suitable, closed

containers for disposal.

6.4

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2

Conditions for safe storage, including any incompatibilities

Store in cool place.

Keep container tightly

closed in a dry and well

-

ventilated place.

7.3

Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1

Control parameters

Components with workplace control parameters

8.2

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper

glove removal technique

(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands. Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work

-

place. The type of protective equipment must be selected

according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1

Information

on basic physical and chemical properties

a)

Appearance

Form

:

solid

Colour

:

white
b)
Odour
odourless
c)
Odour Threshold
no data available
d)
pH
no data available
e)
Melting point/freezing
point
175,5
-
177,2 °C
f)
Initial boiling point and
boiling range
no data available
g)
Flash point
no data available
h)
Evaporation rate
no data available
i)
Flammability (solid, gas)
no data available
j)
Upper/lower
flammability or
explosive limits
no data available
k)
Vapour pressure
no data available
l)
Vapour density
no data available
m)
Relative density
1,618 g/cm³
at
25 °C
n)
Water solubility
0,015 g/l
at
20 °C
o)
Partition coefficient: n
-
octanol/water
log Pow
:
-
0,019
at
-
2
-
2 °C
p)
Autoignition
temperature
no data available
q)
Decomposition
temperature
no data available
r)
Viscosity
no data available
s)
Explosive properties
no data available
t)
Oxidizing properties
no data available
9.2

Other safety information
Solubility in other
solvents
Methanol
1,62 g/l

10. STABILITY AND REACTIVITY

10.1
Reactivity
no data available
10.2
Chemical stability
no data available
10.3
Possibility of hazardous reactions
no data available
10.4
Conditions to avoid
no data available
10.5
Incompatible materials
Strong oxidizing agents
10.6
Hazardous decomposition products
Other decomposition products
-
no data available

11. TOXICOLOGICAL INFORMATION

11.1
Information on toxicological effects
Acute toxicity
LD50
Oral
-
rat
-
8.866 mg/kg
LD50
Oral
-
mouse
-
11.173 mg/kg
Skin corrosion/irritation
Serious eye damage/eye irritation
No eye irritation
no data available
Respiratory or skin sensitization
guinea pig
-
Did not cause sensitization on laboratory animals.
Germ cell mutagenicity
no data available
Carcinogenicity
IARC:
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

S

pecific target organ toxicity

-

single exposure

no data available

Spec

ific target organ toxicity

-

repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Additional Information

Repeated dose toxicity

-

rat

-

males

-

No observed adverse effect level

-

108,3 mg/kg

Repeated dose toxicity

-

rat

-

female

-

No observed adverse effect level

-

56,3 mg/kg

Repeated dose toxicity

-

mouse

-

male

-

No observed adverse effect level

-

410 mg/kg

Repeated dose toxicity

-

mouse

-

females

-

No observed adverse effect level

-

1.215 mg/kg

RTECS

:

Not available

12. ECOLOGICAL INFORMATION

12.1

Toxicity

Toxicity to fish
LC50

-

Lepomis macrochirus (Bluegill)

-

> 118 mg/l

-

96,0 h

LC50

-

Oncorhynchus mykiss (rainbow trout)

-

> 131 mg/l

-

96,0 h

Toxicity to daphnia and
other aquatic
invertebrates

EC50

-

Daphnia

-

> 107 mg/l

-

48 h

Toxicity to algae

EC50

-

Pseudokirchneriella subcapitata (green algae)

-

0,0053 mg/l

-

120 h

EC50

-

Anabaena flosaquae

-

0,158 mg/l

-

120 h

12.2

Persistence and degradability

According to the results of tests of biodegradability this product is not readily biodegradable.

12.3

Bioaccumulative potential

no data available

12.4

Mobility in soil

no data available

12.5

Results of PBT and vPvB assessment

no data available

12.6

Other adverse effects

Very toxic to aquatic life.

no data available

13. DISPOSAL CONSIDERATIONS

13.1

Waste treatment methods

Product

Offer surplus and non

-

recyclable solutions to a licensed disposal company.

Contact a licensed

professional waste disposal service to dispose of this material.

Dissolve or mix the material with a

combustible solvent and burn in a chemical incinerator equip-

ped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1
UN number
ADR/RID
:
3077
IMDG
:
3077
IATA:
3077
14.2
UN proper shipping name
ADR/RID
:
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(
HALOSULFURON
-
METHYL
)
IMDG
:
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(
HALOSULFURON
-
METHYL
)
IATA:
Environmentally hazardous substance, solid, n.o.s.
(
HALOSULFURON
-
METHYL
)
14.3
Transport hazard class(es)
ADR/RID
:
9
IMDG
:
9
IATA:
9
14.4
Packaging group
ADR/RID
:
III
IMDG
:
III
IATA:
III
14.5
Environmental hazards
ADR/RID
:
yes
IMDG
Marine pollutant
:
yes
IATA:
yes
14.6
Special precautions for user

Further information
EHS

-
Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1

Safety, health and environmental regulations/
egislation specific for the substance or mixture
no data available

15.2

Chemical Safety Assessment
no data available

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!