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Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 17 Mar 2025

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

1.1. Product name:

Halosulfuron-methyl

1.1. Catalog No.:

677795

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

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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

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2.2.2.

2.2
Signal Word Danger
Hazard statement
H360D May damage the unborn child.
H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements
P202 Do not handle until all safety precautions have been read and understood.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P391 Collect spillage.
P405 Store locked up.
Supplemental Hazard Statements none

Restricted to professional users.

Reduced Labeling (<= 125 ml)

Signal Word Danger
Hazard Statements
H360D May damage the unborn child.
Precautionary Statements
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P405 Store locked up.
Supplemental Hazard Statements
none

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Ecological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Toxicological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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-
4
-
carboxylate
Formula
:
C
13
H
15
ClN
6
O
7
S
Molecular Weight
:
434,81 g/mol
Component
Concentration
HALOSULFURON
-
METHYL
CAS
-
No.
100784
-
20
-
1
-

3.1.1. Formula

C13H15ClN6O7S

3.1.2. Molecular Weight (g/mol)

434.81

3.1.3. CAS-No.

100784-20-1

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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

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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 tig
htly 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 p
roper 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 und
er appropriate government standards such as NIOSH (US) or CEN (EU).

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1
Informati
on 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 res
piratory 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

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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 equipp
ed 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/l
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!