

**Monuron-(dimethyl-d6),
reference material****R1047-10MG**

Version 1.1

Issuing date 08/23/2018

Revision Date 11/04/2019

Print Date 08/03/2021

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	:	Monuron-(dimethyl-d6), reference material
Number	:	000000019283
Recommended use of the chemical and restrictions on use	:	Laboratory chemicals, Reference Standard
Manufacturer or supplier's details	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 Seelze, 30926
For further information, please contact:	:	1-800-368-0050 +1-231-726-3171 (Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	Medical: 1-800-498-5701 or +1-303-389-1414 Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887 In Japan: +(81)-345209637 (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Classification of the substance or mixture	:	Acute toxicity, Category 4, Oral Carcinogenicity, Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1
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GHS Label elements, including precautionary statements

Symbol(s)	:	  
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Signal word	:	Warning
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Hazard statements : Harmful if swallowed.
Suspected of causing cancer.
Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/ eye protection/ face protection.

Response:
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF exposed or concerned: Get medical advice/ attention.
Rinse mouth.
Collect spillage.

Storage:
Store locked up.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C₉D₆H₅CIN₂O

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Monuron-(dimethyl-d6)	217488-65-8	<=100.00 %
Monuron-(dimethyl-d6)		

Note: none

4. FIRST AID MEASURES

General advice : First aider needs to protect himself.

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	Move out of dangerous area. Take off all contaminated clothing immediately.
Inhalation	: If breathed in, move person into fresh air. Call a physician if irritation develops or persists.
Skin contact	: Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing immediately. Call a physician if irritation develops or persists.
Eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Remove contact lenses. If eye irritation persists, consult a specialist.
Ingestion	: Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.
Notes to physician	: Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Alcohol-resistant foam Water spray ABC powder Carbon dioxide (CO ₂)
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during firefighting	: In case of fire hazardous decomposition products may be produced such as: carbon oxides (CO, CO ₂), nitrogen oxides (NO _x).
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas.
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

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|---|---|
| Personal precautions,
protective equipment and
emergency procedures | : Wear personal protective equipment. Unprotected persons
must be kept away.
Ensure adequate ventilation.
Avoid dust formation.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing. |
| Environmental precautions | : Prevent further leakage or spillage if safe to do so.
Discharge into the environment must be avoided.
Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform
respective authorities. |
| Methods and materials for
containment and cleaning up | : Use mechanical handling equipment.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations. |

7. HANDLING AND STORAGE**Handling**

- | | |
|-------------------------------|---|
| Precautions for safe handling | : Use only in well-ventilated areas.
Wear personal protective equipment.
Avoid contact with skin, eyes and clothing.
Avoid exposure - obtain special instructions before use.
Avoid breathing dust. |
|-------------------------------|---|

- | | |
|--|---|
| Advice on protection against
fire and explosion | : Normal measures for preventive fire protection. |
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Storage

- | | |
|--|--|
| Conditions for safe storage,
including any
incompatibilities | : Store in original container.
Keep containers tightly closed in a dry, cool and well-
ventilated place. |
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.
Use product only in closed system.

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Individual protection measures, such as personal protective equipment

Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	: Impervious gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Safety glasses with side-shields
Skin and body protection	: Wear suitable protective equipment. Wear as appropriate: Protective suit
Hygiene measures	: General industrial hygiene practice. Take off all contaminated clothing immediately. Recommended preventive skin protection Wash hands before breaks and at the end of workday. Usual hygienic precautions must be taken when working with dangerous cancer causing substances. Keep working clothes separately.
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: powder
Colour	: white
Odour	: odourless
pH	: Note: no data available
Melting point/range	: 164 - 168 °C
Boiling point/boiling range	: Note: no data available

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Flash point	: Note: Not applicable
Evaporation rate	: Note: no data available
Flammability	: no data available
Lower explosion limit	: Note: no data available
Upper explosion limit	: Note: no data available
Vapour pressure	: Note: no data available
Vapour density	: Note: no data available
Density	: Note: no data available
Water solubility	: Note: no data available
Partition coefficient: n-octanol/water	: Note: no data available
Ignition temperature	: Note: no data available
Decomposition temperature	: Note: No decomposition if stored and applied as directed.
Viscosity, dynamic	: Note: no data available
Viscosity, kinematic	: Note: no data available
Molecular weight	: 204.69 g/mol
Bulk density	: Note: no data available

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10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Avoid dust formation.
Incompatible materials to avoid	: Strong oxidizing agents
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: carbon oxides (CO, CO ₂) and nitrogen oxides (NO _x).

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: 1,053 mg/kg Species: Rat Note: The toxicological data has been taken from products of similar composition.
Acute inhalation toxicity	: Note: no data available
Acute dermal toxicity	: LD50: > 2,500 mg/kg Species: Rat Note: The toxicological data has been taken from products of similar composition.
Skin irritation	: Note: no data available
Eye irritation	: Note: no data available
Sensitisation	: Note: no data available
Repeated dose toxicity	: Note: no data available

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Genotoxicity in vitro : Note: no data available

12. ECOLOGICAL INFORMATION**Toxicity**

Toxicity to fish : Note: The toxicological data mentioned are derived from an analogous product.

Toxicity to daphnia and other aquatic invertebrates : Note: The toxicological data mentioned are derived from an analogous product.

Toxicity to algae : Note: The toxicological data mentioned are derived from an analogous product.

Persistence and degradability

Biodegradability : Note: no data available

Other adverse effectsAdditional ecological information : Very toxic to aquatic life with long lasting effects.
The toxicological data mentioned are derived from an analogous product.**13. DISPOSAL CONSIDERATIONS**

Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION**ADR**

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UN/ID No. : UN 3077
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(MONURON-(DIMETHYL-D6))
Class : 9
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

IATA

UN/ID No. : UN 3077
Description of the goods : Environmentally hazardous substance, solid, n.o.s.
(Monuron-(dimethyl-d6))
Class : 9
Packing group : III
Labels : 9
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956
Packing instruction (passenger aircraft) : Y956

IMDG

UN/ID No. : UN 3077
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(MONURON-(DIMETHYL-D6))
Class : 9
Packing group : III
Labels : 9
EmS Number 1 : F-A
EmS Number 2 : S-F
Marine pollutant : yes

Not regulated for transport when single and combination packagings are <5L for liquids or <5kg for solids per ADR 2.2.9.2.10, IMDG 2.10.3 and IATA SP A197).

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15. REGULATORY INFORMATION**National regulatory information**

Vessel Safety Law
JP VSL : Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

Aviation Law
JP AVL : Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

Fire Service Law : Not relevant

Poisonous and Deleterious
Substances Control Law : Not relevant

Other international regulations**Notification status**

US. Toxic Substances
Control Act : Not On TSCA Inventory

Australia. Industrial Chemical
(Notification and
Assessment) Act : Not in compliance with the inventory

Canada. Canadian
Environmental Protection Act
(CEPA). Domestic
Substances List (DSL) : Not in compliance with the inventory

Japan. Kashin-Hou Law List : Not in compliance with the inventory

Korea. Existing Chemicals
Inventory (KECI) : Not in compliance with the inventory

Philippines. The Toxic
Substances and Hazardous
and Nuclear Waste Control
Act : Not in compliance with the inventory

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China. Inventory of Existing Chemical Substances (IECSC) : Not in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : Not in compliance with the inventory

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: -	1
Flammability	: -	1
Physical Hazard	: -	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group