

**Hydramethylnon,  
reference material****R1376-100MG**

Version 1.1

Issuing date

Revision Date 11/03/2019

Print Date 08/03/2021

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

Trade name	:	Hydramethylnon, reference material
Number	:	000000015785
Recommended use of the chemical and restrictions on use	:	Reference Standard, Laboratory chemicals
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	:	<b>Medical: 1-800-498-5701 or +1-303-389-1414</b> <b>Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887</b> <b>In Japan: +(81)-345209637</b> (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 Eye irritation, Category 2A Specific target organ toxicity - repeated exposure, Category 1 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 : Danger

Hazard statements : Harmful if swallowed.  
Causes serious eye irritation.  
Causes damage to organs through prolonged or repeated exposure if swallowed.  
Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
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. Rinse mouth.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Get medical advice/ attention if you feel unwell.  
If eye irritation persists: Get medical advice/ attention.  
Collect spillage.

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**Formula : C<sub>25</sub>H<sub>24</sub>F<sub>6</sub>N<sub>4</sub>

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Hydramethylnon	67485-29-4	<=100.00 %
Hydramethylnon		

**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 inhaled, remove to fresh air. Call a physician if irritation develops or persists.
Skin contact	: After contact with skin, wash immediately with plenty of water. Get medical attention if irritation develops and persists.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Call a physician if irritation develops or persists.
Ingestion	: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give a cupful of water. Call a physician.
Notes to physician	: Treat symptomatically.

**5. FIREFIGHTING MEASURES**

Suitable extinguishing media	: Water spray Foam Carbon dioxide (CO <sub>2</sub> ) Dry powder
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: Hydrogen fluoride carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ).
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions,	: Evacuate personnel to safe areas.
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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

: Wear personal protective equipment.  
Use only in well-ventilated areas.  
Avoid contact with skin, eyes and clothing.

Advice on protection against  
fire and explosion

: Normal measures for preventive fire protection.

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

: Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Appropriate engineering controls**

Use with local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

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Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	: Latex 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	: Keep working clothes separately. Wash hands before breaks and at the end of workday.
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. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	: crystalline
Colour	: yellow to tan
Odour	: no data available
pH	: Note: no data available
Melting point/range	: 189 - 191 °C
Boiling point/boiling range	: Note: no data available
Flash point	: Note: Not applicable
Evaporation rate	: Note: no data available

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Flammability	: The product is not flammable.
Lower explosion limit	: Note: no data available
Upper explosion limit	: Note: no data available
Vapour pressure	: < 0.00001 hPa at 25 °C(77 °F)
Vapour density	: Note: no data available
Density	: Note: no data available
Water solubility	: 0.005 - 0.007 mg/l at 25 °C
Partition coefficient: n-octanol/water	: log Pow: 2.31
Ignition temperature	: Note: no data available
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: no data available
Viscosity, kinematic	: Note: no data available
Molecular weight	: 494.48 g/mol

**10. STABILITY AND REACTIVITY**

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous	: Hazardous decomposition products formed under fire

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reactions

conditions.

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:  
Hydrogen fluoride  
carbon oxides (CO, CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity

: LD50: 1,131 mg/kg  
Species: Rat

Acute inhalation toxicity

: LC50: > 5 mg/l  
Exposure time: 4 h  
Species: Rat

Acute dermal toxicity

: LD50: > 5,000 mg/kg  
Species: Rabbit

Skin irritation

: Species: Rabbit  
Result: No skin irritation

Eye irritation

: Species: Rabbit  
Result: Irritating to eyes.

Sensitisation

: Species: Guinea pig  
Result: Not a skin sensitizer.

Repeated dose toxicity

: Note: no data available

Genotoxicity in vitro

: Note: no data available

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Aspiration toxicity : no data available

**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish : LC50: 0.16 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other  
aquatic invertebrates : LC50: 1.14 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

Toxicity to algae : Note: no data available

**Persistence and degradability**

Biodegradability : Note: no data available

**Other adverse effects**

Additional ecological  
information : Very toxic to aquatic life with long lasting effects.

**13. DISPOSAL CONSIDERATIONS**

Disposal methods : In accordance with local and national regulations.

**14. TRANSPORT INFORMATION**

**ADR**  
UN/ID No. : UN 3077



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N.O.S.

((5,5-DIMETHYL-PERHYDRO-PYRIMIDIN-2-ONE-(4-  
TRIFLUOROMETHYLSTYRYL)-(4-  
TRIFLUOROMETHYL)CINNAMYLIDENEHYDRAZONE))

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.  
((5,5-Dimethyl-perhydro-pyrimidin-2-one-(4-  
trifluoromethylstyryl)-(4-  
trifluoromethyl)cinnamylidenehydrazone))

Class : 9  
Packing group : III  
Labels : 9  
Packing instruction (cargo aircraft) : 956  
Packing instruction : 956  
(passenger aircraft)  
Packing instruction : Y956  
(passenger aircraft)

**IMDG**

UN/ID No. : UN 3077

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
((5,5-DIMETHYL-PERHYDRO-PYRIMIDIN-2-ONE-(4-  
TRIFLUOROMETHYLSTYRYL)-(4-  
TRIFLUOROMETHYL)CINNAMYLIDENEHYDRAZONE))

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

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

Fire Service Law : Not relevant

Poisonous and Deleterious : Not relevant  
Substances Control Law

**Other international regulations****Notification status**

US. Toxic Substances : Not On TSCA Inventory  
Control Act

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

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

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

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

Philippines. The Toxic : Not in compliance with the inventory

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Substances and Hazardous  
and Nuclear Waste Control  
Act

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

**16. OTHER INFORMATION****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