

MATERIAL SAFETY DATA SHEET

Date Printed: 05/01/2008

Date Updated: 01/30/2006

Version 1.3

Section 1 - Product and Company Information

Product Name NABUMETONE
Product Number N6142
Brand SIGMA

Company Sigma-Aldrich
Address 3050 Spruce Street
SAINT LOUIS MO 63103 US

Technical Phone: 800-325-5832
Fax: 800-325-5052
Emergency Phone: 314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313
NABUMETONE	42924-53-8	No

Formula C15H16O2
Synonyms BRL 147777 *
4-(6-Methoxy-2-naphthalenyl)-2-butanone *
4-(6-Methoxy-2-naphthyl)-2-butanone * Nabumetone

RTECS Number: EL9085000

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution: Avoid contact and inhalation.

HMIS RATING

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

NFPA RATING

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for

at least 15 minutes. Remove contaminated clothing and shoes.
Call a physician.

EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

FLASH POINT

N/A

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear protective equipment.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS

Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

Section 9 - Physical/Chemical Properties

Appearance

Physical State: Solid

Property

Value

At Temperature or Pressure

Molecular Weight

228.3 AMU

pH

N/A

BP/BP Range

N/A

MP/MP Range

N/A

Freezing Point

N/A

Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Surface Tension	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	N/A

N/A = not available

Section 10 - Stability and Reactivity

STABILITY

Stable: Stable.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

ROUTE OF EXPOSURE

Multiple Routes: May cause irritation. May be harmful by inhalation, ingestion, or skin absorption.

SIGNS AND SYMPTOMS OF EXPOSURE

May cause dyspepsia, severe heartburn, epigastric pain or discomfort, headache, itching, dizziness, nausea, vomiting.

CONDITIONS AGGRAVATED BY EXPOSURE

The toxicological properties have not been thoroughly investigated.

TOXICITY DATA

Oral

Rat

3880 mg/kg

LD50

Remarks: Gastrointestinal:Ulceration or bleeding from stomach.
Gastrointestinal:Other changes.

Intraperitoneal

Rat

1520 MG/KG

LD50

Remarks: Gastrointestinal:Ulceration or bleeding from stomach.
Gastrointestinal:Other changes. Skin and Appendages:Skin: After
systemic exposure: Dermatitis, other

Subcutaneous

Rat

>10 GM/KG

LD50

Remarks: Skin and Appendages:Skin: After systemic exposure:
Dermatitis, other

Oral

Mouse

4290 mg/kg

LD50

Remarks: Gastrointestinal:Other changes. Behavioral:Change in
motor activity (specific assay). Behavioral:Convulsions or
effect on seizure threshold.

Intraperitoneal

Mouse

2380 MG/KG

LD50

Remarks: Behavioral:Convulsions or effect on seizure threshold.
Behavioral:Muscle contraction or spasticity.
Gastrointestinal:Ulceration or bleeding from stomach.

Subcutaneous

Mouse

>10 GM/KG

LD50

Remarks: Skin and Appendages:Skin: After systemic exposure:
Dermatitis, other

Oral

Monkey

3200 mg/kg

LD50

Remarks: Nutritional and Gross Metabolic:Weight loss or
decreased weight gain. Gastrointestinal:Changes in structure or
function of salivary glands. Nutritional and Gross
Metabolic:Changes in:Other changes.

CHRONIC EXPOSURE - TERATOGEN

Species: Rat

Dose: 1760 MG/KG

Route of Application: Oral

Exposure Time: (7-17D PREG)

Result: Effects on Embryo or Fetus: Fetotoxicity (except death,
e.g., stunted fetus). Effects on Newborn: Growth statistics
(e.g., reduced weight gain).

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat

Dose: 8960 MG/KG

Route of Application: Oral

Exposure Time: (15-21D PREG/21D POST)

Result: Maternal Effects: Parturition. Effects on Fertility:

Litter size (e.g.; # fetuses per litter; measured before birth).
Effects on Newborn: Viability index (e.g., # alive at day 4 per
born alive).

Species: Rabbit
Dose: 4160 MG/KG
Route of Application: Oral
Exposure Time: (6-18D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g.,
dead and/or resorbed implants per total number of implants).

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Dissolve or mix the material with a combustible solvent and burn
in a chemical incinerator equipped with an afterburner and
scrubber. Observe all federal, state, and local environmental
regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None
Non-Hazardous for Transport: This substance is
considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air
transport.

Section 15 - Regulatory Information

US CLASSIFICATION AND LABEL TEXT

US Statements: Caution: Avoid contact and inhalation.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in
accordance with the hazard criteria of the CPR, and the MSDS
contains all the information required by the CPR.

DSL: No

NDSL: No

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

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. Sigma-Aldrich Inc.,
shall not be held liable for any damage resulting from handling or

from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.