

# Safety Data Sheet

## INTEGRITY

Revision date : 2009/09/24  
Version: 1.0

Page: 1/9  
(30466763/SDS\_CPA\_US/EN)

### 1. Product and Company Identification

Company  
BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

Substance number: 000000269978  
Molecular formula: C<sub>17</sub> H<sub>17</sub> Cl F<sub>4</sub> N<sub>4</sub> O<sub>5</sub> S + C<sub>12</sub> H<sub>18</sub> Cl N O<sub>2</sub> S  
Chemical family: halogenated, amide, herbicide, mixture  
Synonyms: uracil + chloracetanilide

### 2. Hazards Identification

#### Emergency overview

WARNING:  
Causes substantial but temporary eye injury.  
HARMFUL IF SWALLOWED.  
HARMFUL IF INHALED.  
HARMFUL IF ABSORBED THROUGH SKIN.  
KEEP OUT OF REACH OF CHILDREN.  
KEEP OUT OF REACH OF DOMESTIC ANIMALS.  
Do not get in eyes, on skin, or on clothing.  
Avoid inhalation of mists/vapours.

See Product Label for additional precautionary statements.

State of matter: liquid  
Colour: light brown, clear  
Odour: strong

#### Potential health effects

##### **Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

##### **Acute toxicity:**

Slightly toxic after single ingestion. Relatively nontoxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

##### **Irritation / corrosion:**

Causes substantial but temporary eye injury. May cause slight irritation to the skin.

##### **Medical conditions aggravated by overexposure:**

# Safety Data Sheet

## INTEGRITY

Revision date : 2009/09/24

Page: 2/9

Version: 1.0

(30466763/SDS\_CPA\_US/EN)

Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

### Signs and symptoms of overexposure:

Vomiting may cause aspiration pneumonia due to the ingredients. Because of the increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent, vomiting should be induced only under professional supervision.

### Potential environmental effects

#### Aquatic toxicity:

Acutely harmful for fish. Acutely harmful for aquatic invertebrates. Very toxic (acute effect) to aquatic plants.

#### Terrestrial toxicity:

With high probability not acutely harmful to terrestrial organisms.

## 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
163515-14-8	< 56.0 %	(S)-dimethenamid
372137-35-4	< 6.5 %	Benzamide, 2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-4-fluoro-N-[[methyl(1-methylethyl)amino]sulfonyl]-
	> 34.5 - < 39.0 %	Proprietary ingredients
91-57-6	< 1.5 %	Naphthalene, 2-methyl-
91-20-3	< 1.0 %	naphthalene
90-12-0	< 0.5 %	Naphthalene, 1-methyl-

## 4. First-Aid Measures

### General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

### If inhaled:

Remove the affected individual into fresh air and keep the person calm.

### If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

### If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

### If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting unless told to by a poison control center or doctor. Do not give solids or liquids.

### Note to physician

Antidote: No known specific antidote.  
Treatment: Treat symptomatically.

## 5. Fire-Fighting Measures

Flash point: > 112.8 °C

# Safety Data Sheet

## INTEGRITY

Revision date : 2009/09/24

Page: 3/9

Version: 1.0

(30466763/SDS\_CPA\_US/EN)

Autoignition: approx. 491 °C Information applies to the solvent.  
Self-ignition temperature: not self-igniting

**Suitable extinguishing media:**

foam, dry extinguishing media, carbon dioxide, water spray

**Hazards during fire-fighting:**

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Sulphur dioxide, Hydrogen chloride, hydrogen fluoride, halogenated hydrocarbons, Hydrocarbons,

If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire.

**Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

---

## 6. Accidental release measures

**Personal precautions:**

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

**Environmental precautions:**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

**Cleanup:**

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

---

## 7. Handling and Storage

**Handling**

**General advice:**

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

**Protection against fire and explosion:**

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

**Storage**

**General advice:**

# Safety Data Sheet

## INTEGRITY

Revision date : 2009/09/24  
Version: 1.0

Page: 4/9  
(30466763/SDS\_CPA\_US/EN)

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

### Storage incompatibility:

General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

### Temperature tolerance

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

## 8. Exposure Controls and Personal Protection

**Users of a pesticidal product should refer to the product label for personal protective equipment requirements.**

### Components with workplace control parameters

naphthalene	OSHA ACGIH	PEL 10 ppm 50 mg/m <sup>3</sup> ; TWA value 10 ppm ; STEL value 15 ppm ; Skin Designation ; The substance can be absorbed through the skin.
Naphthalene, 1-methyl-	ACGIH	TWA value 0.5 ppm ; Skin Designation ; The substance can be absorbed through the skin.
Naphthalene, 2-methyl-	ACGIH	TWA value 0.5 ppm ; Skin Designation ; The substance can be absorbed through the skin.

### Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

### Personal protective equipment

#### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

#### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

# Safety Data Sheet

## INTEGRITY

Revision date : 2009/09/24  
Version: 1.0

Page: 5/9  
(30466763/SDS\_CPA\_US/EN)

### General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

Form:	liquid	
Odour:	strong	
Colour:	light brown, clear	
pH value:	4.2	( 10 g/l, 25 °C)
Freezing point:	approx. -20 °C	( 1,013.3 hPa) Information applies to the solvent.
Boiling range:	approx. 232 - 278 °C	Information applies to the solvent.
Vapour pressure:	approx. 0.05 hPa	( 20 °C) Information applies to the solvent.
Density:	1.092 g/cm <sup>3</sup>	( 20 °C)
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:	54.91 mPa.s	( 20 °C)
Solubility in water:		emulsifiable, insoluble

## 10. Stability and Reactivity

### Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. Avoid prolonged storage.

### Substances to avoid:

strong oxidizing agents

### Hazardous reactions:

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

### Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

### Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Sulphur dioxide, Hydrogen chloride, hydrogen fluoride, halogenated hydrocarbons, Hydrocarbons

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released.

### Corrosion to metals:

The product is not to be labelled as corrosive for transport purposes.

### Oxidizing properties:

Not an oxidizer.

## 11. Toxicological information

# Safety Data Sheet

## INTEGRITY

Revision date : 2009/09/24  
Version: 1.0

Page: 6/9  
(30466763/SDS\_CPA\_US/EN)

### Acute toxicity

#### Oral:

Type of value: LD50  
Species: rat  
Value: > 2,000 mg/kg

#### Inhalation:

Type of value: LC50  
Species: rat (male/female)  
Value: > 5.77 mg/l

#### Dermal:

Type of value: LD50  
Species: rat  
Value: > 5,000 mg/kg

### Irritation / corrosion

#### Skin:

Species: rabbit  
May cause moderate irritation to the skin.

#### Eye:

Species: rabbit  
Causes substantial but temporary eye injury.

#### Sensitization:

modified Buehler test  
Species: guinea pig  
Caused skin sensitization in animal studies.

### Genetic toxicity

#### Information on: dimethenamid-P

Results from a number of mutagenicity studies with microorganisms and mammalian cell culture are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

#### Information on: Saflufenacil

Results from a number of genotoxicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is genotoxic.

-----

### Carcinogenicity

#### Information on: dimethenamid-P

The induction of tumors in animal studies was due to a reversible, nongenotoxic effect for which a threshold dose can be derived. Indication of possible carcinogenic effect in animal tests.

#### Information on: Saflufenacil

Not carcinogenic.

-----

### Reproductive toxicity

#### Information on: dimethenamid-P

The results of animal studies gave no indication of a fertility impairing effect.

#### Information on: Saflufenacil

The results of animal studies gave no indication of a fertility impairing effect.

-----

### Development:

Information on: dimethenamid-P

# Safety Data Sheet

## INTEGRITY

Revision date : 2009/09/24  
Version: 1.0

Page: 7/9  
(30466763/SDS\_CPA\_US/EN)

*Causes developmental effects in animals at high, maternally toxic doses.*  
*Information on: Saflufenacil*  
*No indications of a developmental toxic / teratogenic effect were seen in animal studies.*  
-----

---

## 12. Ecological Information

### Fish

*Information on: dimethenamid-P*  
*Acute:*  
*Cyprinodon variegatus/LC50: 12 mg/l*  
*Lepomis macrochirus/LC50: 10.0 mg/l*

*Information on: Saflufenacil*  
*Acute:*  
*OECD Guideline 203 static*  
*Oncorhynchus mykiss/LC50 (96 h): > 120 mg/l*  
*OECD Guideline 203 static*  
*Lepomis macrochirus/LC50 (96 h): > 120 mg/l*  
*OECD Guideline 203 static*  
*Lepomis macrochirus/NOEC (96 h): >= 120 mg/l*  
-----

### Aquatic invertebrates

*Information on: dimethenamid-P*  
  
*Information on: Saflufenacil*  
*Acute:*  
*OECD Guideline 202, part 1 static*  
*Daphnia magna/EC50 (48 h): > 100 mg/l*  
-----

### Aquatic plants

*Information on: dimethenamid-P*  
*Toxicity to aquatic plants:*  
*Algae/EC50: 0.38 mg/l*  
*Algae/EC50: 34 mg/l*  
  
*Information on: Saflufenacil*  
*Toxicity to aquatic plants:*  
*OECD Guideline 201 static*  
*green algae/EC50 (72 h): 0.108 mg/l*  
-----

### Non-Mammals

*Information on: dimethenamid-P*  
*Other terrestrial non-mammals:*  
*bobwhite quail/LD50: 1,068 mg/kg*  
*bobwhite quail/LC50: > 5,620 mg/kg*  
*mallard duck/LC50: > 5,620 mg/kg*  
*Honey bee/LD50 (24 d): > 1000 ug/bee*  
-----

### Degradability / Persistence Biological / Abiological Degradation

Evaluation: Not readily biodegradable (by OECD criteria).

### Other adverse effects:

# Safety Data Sheet

## INTEGRITY

Revision date : 2009/09/24  
Version: 1.0

Page: 8/9  
(30466763/SDS\_CPA\_US/EN)

The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

### 13. Disposal considerations

#### Waste disposal of substance:

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

#### RCRA:

This product is not regulated by RCRA.

### 14. Transport Information

Reference Bill of Lading

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

**OSHA hazard category:** IARC 1, 2A or 2B carcinogen; NTP listed carcinogen; Chronic target organ effects reported

**EPCRA 311/312 (Hazard categories):** Acute; Chronic

##### EPCRA 313:

##### CAS Number

91-20-3

##### Chemical name

naphthalene

##### CERCLA RQ

100 LBS

##### CAS Number

91-20-3

##### Chemical name

naphthalene

#### State regulations

##### State RTK

NJ, PA  
MA, NJ, PA  
MA, PA

##### CAS Number

91-57-6  
91-20-3  
90-12-0

##### Chemical name

Naphthalene, 2-methyl-  
naphthalene  
Naphthalene, 1-methyl-

##### CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

# Safety Data Sheet

## INTEGRITY

Revision date : 2009/09/24  
Version: 1.0

Page: 9/9  
(30466763/SDS\_CPA\_US/EN)

---

### 16. Other Information

**Refer to product label for EPA registration number.**

Recommended use: herbicide

BASF supports worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

---

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE , IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.  
END OF DATA SHEET