

# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 1/12  
(30128612/SDS\_CPA\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Chopper Herbicide

#### Recommended use of the chemical and restriction on use

Recommended use\*: crop protection product, herbicide  
Recommended use\*: herbicide

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

Company:  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Substance number: 57494  
EPA Registration number: 241-296  
Molecular formula: C(13) H(15) N(3) O(3).C(3) H(9) N  
Chemical family: imidazole derivative  
Synonyms: Isopropylamine salt of imazapyr

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

#### Classification of the product

Skin Corr./Irrit.	1A	Skin corrosion/irritation
Skin Sens.	1	Skin sensitization

# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 2/12  
(30128612/SDS\_CPA\_US/EN)

### Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

Precautionary Statements (Prevention):

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P260 Do not breathe dust or mist.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

### Hazards not otherwise classified

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 10 - 13 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 10 - 13 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 10 - 13 % Inhalation - mist

## 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
81334-34-1	27.7 %	Imazapyr
64-19-7	< 1.0%	Acetic acid

# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 3/12  
(30128612/SDS\_CPA\_US/EN)

71-36-3	1.0 - 3.0%	n-butanol
104-76-7	1.0 - 3.0%	2-ethylhexan-1-ol

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### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

##### If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

##### If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

##### If swallowed:

Do not induce vomiting. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., (Further) symptoms and / or effects are not known so far

#### Indication of any immediate medical attention and special treatment needed

##### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
foam, dry powder, carbon dioxide, water spray

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, To be archived: Hydrocarbons, If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

#### Advice for fire-fighters

# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 4/12  
(30128612/SDS\_CPA\_US/EN)

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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.

### Methods and material for containment and cleaning up

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.

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## 7. Handling and Storage

### Precautions for safe handling

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.

### Conditions for safe storage, including any incompatibilities

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

# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 5/12  
(30128612/SDS\_CPA\_US/EN)

Further information on storage conditions: 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. 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/Personal Protection

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

#### Components with occupational exposure limits

n-butanol	OSHA PEL	PEL 100 ppm 300 mg/m <sup>3</sup> ; SKIN_FINAL ; The substance can be absorbed through the skin. CLV 50 ppm 150 mg/m <sup>3</sup> ;
	ACGIH TLV	TWA value 20 ppm ;
isopropylamine	OSHA PEL	PEL 5 ppm 12 mg/m <sup>3</sup> ; TWA value 5 ppm 12 mg/m <sup>3</sup> ; STEL value 10 ppm 24 mg/m <sup>3</sup> ;
	ACGIH TLV	STEL value 10 ppm ; TWA value 5 ppm ;

#### **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) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. 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.

##### **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

# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 6/12  
(30128612/SDS\_CPA\_US/EN)

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:	characteristic
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	pale straw yellow to dark green, clear
pH value:	6 - 7.5
Freezing point:	approx. 0 °C ( 1,013.3 hPa)
Boiling point:	Information applies to the solvent. 100 °C ( 1,013.3 hPa)
Flash point:	Information applies to the solvent. Information applies to the solvent. Non-flammable.
Flammability:	not applicable
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Autoignition:	not applicable
Vapour pressure:	approx. 23 hPa ( 20 °C)
Density:	Information applies to the solvent. approx. 1.05 - 1.07 g/cm <sup>3</sup> ( 20 °C)
Vapour density:	not applicable
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Self-ignition temperature:	not self-igniting
Thermal decomposition:	carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, To be archived: Hydrocarbons Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	approx. > 1 mPa.s ( 20 °C)
Solubility in water:	soluble
Molar mass:	320.4 g/mol
Evaporation rate:	not applicable
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 7/12  
(30128612/SDS\_CPA\_US/EN)

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### 10. Stability and Reactivity

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:  
Not an oxidizer.

#### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### Possibility of hazardous reactions

The product is chemically stable.  
Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

#### Conditions to avoid

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

#### Incompatible materials

oxidizing agents, reducing agents

#### Hazardous decomposition products

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 oxide, nitrogen dioxide, To be archived: Hydrocarbons  
Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released.  
No decomposition if stored and handled as prescribed/indicated.

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### 11. Toxicological information

#### Primary routes of exposure

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

#### Acute Toxicity/Effects

##### Acute toxicity

Assessment of acute toxicity: Relatively nontoxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

##### Oral

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

# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 8/12  
(30128612/SDS\_CPA\_US/EN)

Slightly toxic to practically nontoxic.

### Inhalation

Type of value: LC50  
Species: rat (male/female)  
Value: 1.58 mg/l  
Exposure time: 4 h

### Dermal

Type of value: LD50  
Species: rabbit  
Value: > 5,000 mg/kg  
Slightly toxic.

### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

The product has not been tested. The statement has been derived from the properties of the individual components.

### Irritation / corrosion

Assessment of irritating effects: May cause slight but temporary irritation to the eyes. May cause slight irritation to the skin.

### Skin

Species: rabbit  
Result: Irritating.  
Method: Primary skin irritation test

### Eye

Species: rabbit  
Result: moderately irritating

### Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

### Skin sensitization test

Species: guinea pig  
Result: slightly sensitizing

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

*Information on: isopropylamine*

*Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation.*

*Information on: 2-ethylhexan-1-ol*

*Assessment of repeated dose toxicity: Repeated exposure to high doses of the substance causes reversible liver changes in rodents. According to present knowledge, these effects do not occur in man.*

*May cause liver and kidney damage.*

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### Genetic toxicity



# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 9/12  
(30128612/SDS\_CPA\_US/EN)

*Information on: imazapyr*

*Assessment of mutagenicity: No mutagenic effect was found in various tests with microorganisms and mammals.*

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### Reproductive toxicity

*Information on: imazapyr*

*Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.*

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### Teratogenicity

*Information on: imazapyr*

*Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.*

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### Other Information

Misuse can be harmful to health.

## Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., (Further) symptoms and / or effects are not known so far

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## 12. Ecological Information

### Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to fish. There is a high probability that the product is not acutely harmful to aquatic invertebrates. Acutely harmful for aquatic plants.

#### Toxicity to fish

*Information on: imazapyr*

*LC50 (96 h) > 100 mg/l, Oncorhynchus mykiss*

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#### Aquatic invertebrates

*Information on: imazapyr*

*EC50 (48 h) > 100 mg/l, Daphnia magna*

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#### Aquatic plants

*Information on: imazapyr*

*EC50 71 mg/l, Selenastrum capricornutum*

*EC50 (7 d) 11.5 mg/l, Anabaena flos-aquae*

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# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 10/12  
(30128612/SDS\_CPA\_US/EN)

### Assessment of terrestrial toxicity

With high probability not acutely harmful to terrestrial organisms.

### Other terrestrial non-mammals

*Information on: imazapyr*

*LC50, Anas platyrhynchos*

*With high probability not acutely harmful to terrestrial organisms.*

*LD50 > 100 ug/bee, Apis mellifera*

*With high probability not acutely harmful to terrestrial organisms.*

## **Persistence and degradability**

### Elimination information

Not readily biodegradable (by OECD criteria).

### Assessment biodegradation and elimination (H2O)

*Information on: Imazapyr technical*

## **Bioaccumulative potential**

### Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

### Bioaccumulation potential

*Information on: Imazapyr technical*

*Bioconcentration factor: < 1.0, Lepomis macrochirus*

*Does not accumulate in organisms.*

## **Mobility in soil**

### Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Imazapyr technical*

*The substance will not evaporate into the atmosphere from the water surface.*

*Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.*

## **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 11/12  
(30128612/SDS\_CPA\_US/EN)

### 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

#### Land transport

USDOT

Not classified as a dangerous good under transport regulations

#### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

#### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

### 15. Regulatory Information

#### Federal Regulations

#### Registration status:

Crop Protection TSCA, US released / exempt

Chemical TSCA, US blocked / not listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### EPCRA 313:

##### CAS Number

71-36-3

##### Chemical name

n-butanol

##### CERCLA RQ

5000 LBS

##### CAS Number

71-36-3

##### Chemical name

n-butanol

# Safety Data Sheet

## Chopper Herbicide

Revision date : 2018/10/30  
Version: 5.0

Page: 12/12  
(30128612/SDS\_CPA\_US/EN)

### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
PA	71-36-3	n-butanol
	104-76-7	2-ethylhexan-1-ol
	75-31-0	isopropylamine
MA	71-36-3	n-butanol
	104-76-7	2-ethylhexan-1-ol
	75-31-0	isopropylamine
NJ	71-36-3	n-butanol
	75-31-0	isopropylamine
	104-76-7	2-ethylhexan-1-ol

### **Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

### **BASF Risk Assessment, CA Prop. 65:**

Based on an evaluation of the product's composition and the use(s), this product does not require a California Proposition 65 Warning.

### **NFPA Hazard codes:**

Health: 2      Fire: 1      Reactivity: 1      Special:

## 16. Other Information

### **SDS Prepared by:**

BASF NA Product Regulations  
SDS Prepared on: 2018/10/30

We support 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.

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