

# SAFETY DATA SHEET



## HUSKIE™ HERBICIDE

Version 3.0 / USA  
102000011554

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Revision Date: 03/31/2016  
Print Date: 04/15/2016

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

**Trade name** HUSKIE™ HERBICIDE

**Product code (UVP)** 79002149

**SDS Number** 102000011554

**EPA Registration No.** 264-1023

#### Relevant identified uses of the substance or mixture and uses advised against

**Use** Herbicide

**Restrictions on use** See product label for restrictions.

#### Information on supplier

**Supplier** Bayer CropScience  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

**Responsible Department** Email: SDSINFO.BCS-NA@bayer.com

#### Emergency telephone no.

**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577

**Product Information Telephone Number** 1-866-99BAYER (1-866-992-2937)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification in accordance with regulation HCS 29CFR §1910.1200

Aspiration hazard: Category 1

Carcinogenicity: Category 2

Reproductive toxicity: Category 2

Eye irritation: Category 2B

Acute toxicity(Oral): Category 4

Flammable liquids: Category 4

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**Signal word:** Danger

### Hazard statements

May be fatal if swallowed and enters airways.  
Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.  
Causes eye irritation.  
Harmful if swallowed.  
Combustible liquid

### Precautionary statements

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.  
Do NOT induce vomiting.  
Rinse mouth.  
IF exposed or concerned: Get medical advice/ attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/ attention.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
Store locked up.  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container in accordance with local regulation.

### Hazards Not Otherwise Classified (HNOC)

No other hazards known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Pyrasulfotole	365400-11-9	3.3
Bromoxynil octanoate	1689-99-2	13.4
Bromoxynil heptanoate	56634-95-8	12.9
Mefenpyr-diethyl	135590-91-9	0.83
Naphthalene	91-20-3	5.09

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### SECTION 4: FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

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

**Symptoms** Aspiration may cause pulmonary oedema and pneumonitis.

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

**Risks** Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

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### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

**Suitable** Water, Alcohol-resistant foam, Dry powder, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable** None known.

**Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

#### Advice for firefighters

**Special protective equipment for firefighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

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<b>Further information</b>	Evacuate personnel to safe areas. Avoid contact with spilled product or contaminated surfaces. Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses.
<b>Flash point</b>	90 °C
<b>Auto-ignition temperature</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Explosivity</b>	Not applicable

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Precautions** Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Evacuate and isolate spill area.

### Methods and materials for containment and cleaning up

**Methods for cleaning up** Dike area to prevent runoff. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Contaminated soil may have to be removed and disposed. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

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## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

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Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove and wash contaminated gloves, including the inside, before re-use. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage areas and containers

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container. Store in a place accessible by authorized persons only.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Pyrasulfotole	365400-11-9	0.3 mg/m <sup>3</sup> (TWA)		OES BCS*
Bromoxynil octanoate	1689-99-2	0.21 mg/m <sup>3</sup> (SK-SEN)		OES BCS*
Mefenpyr-diethyl	135590-91-9	10 mg/m <sup>3</sup> (TWA)		OES BCS*
Naphthalene	91-20-3	10 ppm (TWA)	02 2012	ACGIH
Naphthalene	91-20-3	50 mg/m <sup>3</sup> /10 ppm (REL)	2010	NIOSH
Naphthalene	91-20-3	75 mg/m <sup>3</sup> /15 ppm (STEL)	2010	NIOSH
Naphthalene	91-20-3	50 mg/m <sup>3</sup> /10 ppm (PEL)	02 2006	OSHA Z1
Naphthalene	91-20-3	50 mg/m <sup>3</sup> /10 ppm (TWA)	1989	OSHA Z1A
Naphthalene	91-20-3	75 mg/m <sup>3</sup> /15 ppm (STEL)	1989	OSHA Z1A
Naphthalene	91-20-3	50 mg/m <sup>3</sup> /10 ppm (TWA)	06 2008	TN OEL
Naphthalene	91-20-3	75 mg/m <sup>3</sup> /15 ppm (STEL)	06 2008	TN OEL
Naphthalene	91-20-3	200ug/m <sup>3</sup> (ST ESL)	02 2013	TX ESL
Naphthalene	91-20-3	50ug/m <sup>3</sup> (AN ESL)	07 2011	TX ESL
Naphthalene	91-20-3	38ppb (ST ESL)	02 2013	TX ESL
Naphthalene	91-20-3	10ppb (AN ESL)	07 2011	TX ESL
Naphthalene	91-20-3	0.5 mg/m <sup>3</sup> /0.1 ppm	10 2014	US CA OEL

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		(TWA PEL)		
Naphthalene	91-20-3	10 ppm (TLV)		OES BCS*

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

### Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

#### Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

#### Hand protection

Chemical resistant nitrile rubber gloves

#### Eye protection

Tightly fitting safety goggles

#### Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.

#### General protective measures

Use only in area provided with appropriate exhaust ventilation. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.

Keep and wash PPE separately from other laundry.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	beige to brown
Physical State	Liquid clear
Odor	aromatic solvent-like
Odour Threshold	No data available
pH	ca. 3.9 at 10 %
Vapor Pressure	No data available
Vapor Density (Air = 1)	No data available
Density	1.14 g/cm <sup>3</sup> at 20 °C
Evaporation rate	No data available
Boiling Point	No data available
Melting / Freezing Point	No data available
Water solubility	No data available
Solubility in other solvents	No data available

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<b>Minimum Ignition Energy</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Viscosity</b>	19.8 mPa.s at 25 °C
<b>Flash point</b>	90 °C
<b>Auto-ignition temperature</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Explosivity</b>	Not applicable

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### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity

<b>Thermal decomposition</b>	Not applicable
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	No data available
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Eye contact, Skin Absorption, Ingestion, Inhalation
<b>Immediate Effects</b>	
<b>Eye</b>	Moderate eye irritation.
<b>Skin</b>	Harmful if absorbed through skin.
<b>Ingestion</b>	May be fatal if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Information on toxicological effects</b>	
<b>Acute oral toxicity</b>	LD50 (female Rat) > 300 - < 2,000 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (male/female combined Rat) > 5 mg/l Exposure time: 4 h

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Determined in the form of liquid aerosol.  
Highest attainable concentration.

LC50 (male/female combined Rat) > 20 mg/l  
Exposure time: 1 h  
Determined in the form of liquid aerosol.  
Extrapolated from the 4 hr LC50.

<b>Acute dermal toxicity</b>	LD50 (male/female combined Rat) > 4,000 mg/kg
<b>Skin irritation</b>	Mild skin irritation. (Rabbit)
<b>Eye irritation</b>	Moderate eye irritation. (Rabbit)
<b>Sensitisation</b>	Non-sensitizing. (Guinea pig)

### Assessment repeated dose toxicity

Pyrasulfotole did not cause specific target organ toxicity in experimental animal studies.  
Bromoxynil octanoate caused specific target organ toxicity in experimental animal studies in the following organ(s): Liver. The observed effects do not appear to be relevant for humans.  
Bromoxynil heptanoate caused specific target organ toxicity in experimental animal studies in the following organ(s): Liver. The observed effects do not appear to be relevant for humans.  
Mefenpyr-diethyl did not cause specific target organ toxicity in experimental animal studies.

### Assessment mutagenicity

Pyrasulfotole was not genotoxic in a battery of in vitro and in vivo tests.  
Bromoxynil octanoate was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.  
Bromoxynil heptanoate was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.  
Mefenpyr-diethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Pyrasulfotole caused at high dose levels an increased incidence of tumours in the following organ(s): Cornea, urinary bladder. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.  
Bromoxynil octanoate caused at high dose levels an increased incidence of tumours in the following organ(s): Liver. The mechanism of tumour formation is not considered to be relevant to man.  
Bromoxynil heptanoate caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Liver. The mechanism of tumour formation is not considered to be relevant to man.  
Mefenpyr-diethyl was not carcinogenic in lifetime feeding studies in rats and mice.

### ACGIH

Naphthalene	91-20-3	Group A3
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### NTP

Naphthalene	91-20-3
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### IARC

Naphthalene	91-20-3	Overall evaluation: 2B
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### OSHA

None.



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### Assessment toxicity to reproduction

Pyrasulfotole did not cause reproductive toxicity in a two-generation study in rats.  
Bromoxynil octanoate did not cause reproductive toxicity in a two-generation study in rats.  
Bromoxynil heptanoate did not cause reproductive toxicity in a two-generation study in rats.  
Mefenpyr-diethyl did not cause reproductive toxicity in a two-generation study in rats.

### Assessment developmental toxicity

Pyrasulfotole did not cause developmental toxicity in rats and rabbits.  
Bromoxynil octanoate caused a delayed foetal growth, an increased incidence of non-specific malformations. Bromoxynil octanoate caused developmental toxicity only at dose levels toxic to the dams.  
Bromoxynil heptanoate caused developmental toxicity only at dose levels toxic to the dams.  
Bromoxynil heptanoate caused a delayed foetal growth, an increased incidence of non-specific malformations.  
Mefenpyr-diethyl caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Mefenpyr-diethyl are related to maternal toxicity.

### Further information

Acute toxicity studies have been bridged from a similar formulation(s).  
The non-acute information pertains to the active ingredient(s).

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## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	LC50 (Lepomis macrochirus (Bluegill sunfish)) 0.029 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient bromoxynil octanoate.
	LC50 (Lepomis macrochirus (Bluegill sunfish)) 0.029 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient bromoxynil heptanoate.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 0.046 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient bromoxynil octanoate.
	EC50 (Daphnia magna (Water flea)) 0.031 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient bromoxynil heptanoate.
<b>Toxicity to aquatic plants</b>	EC50 (Navicula pelliculosa (Freshwater diatom)) 0.043 mg/l Exposure time: 120 h The value mentioned relates to the active ingredient bromoxynil octanoate.
	EC50 (Lemna gibba (gibbous duckweed)) 0.073 mg/l

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	The value mentioned relates to the active ingredient bromoxynil octanoate.
<b>Biodegradability</b>	Pyrasulfotole: Not rapidly biodegradable Bromoxynil octanoate: Not rapidly biodegradable Bromoxynil heptanoate: Not rapidly biodegradable Mefenpyr-diethyl: Not rapidly biodegradable
<b>Koc</b>	Pyrasulfotole: Koc: 20 - 213 Bromoxynil octanoate: Koc: 639 Bromoxynil heptanoate: Koc: ca. 600 Mefenpyr-diethyl: Koc: 625
<b>Bioaccumulation</b>	Pyrasulfotole: Does not bioaccumulate. Bromoxynil octanoate: Bioconcentration factor (BCF) 230 Does not bioaccumulate. Bromoxynil heptanoate: No data available, Does not bioaccumulate. Mefenpyr-diethyl: Bioconcentration factor (BCF) 232 Does not bioaccumulate.
<b>Mobility in soil</b>	Pyrasulfotole: Moderately mobile in soils Bromoxynil octanoate: Slightly mobile in soils Bromoxynil heptanoate: Slightly mobile in soils Mefenpyr-diethyl: Slightly mobile in soils
<b>Environmental precautions</b>	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply when weather conditions favor runoff or drift. Drift or runoff from treated areas may adversely affect non-target plants.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Product</b>	Dispose in accordance with all local, state/provincial and federal regulations. Do not contaminate water, food, or feed by disposal. Never place unused product down any indoor or outdoor drain.
<b>Contaminated packaging</b>	Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Follow advice on product label and/or leaflet.

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### RCRA Information

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

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## SECTION 14: TRANSPORT INFORMATION

### 49CFR

NA-Number	1993
Packaging group	III
Marine pollutant	Marine pollutant
Proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (BROMOXYNIL, PETROLEUM DISTILLATES, NAPHTHALENE)
RQ	Reportable Quantity is reached with 1,964 lb of product.

### IMDG

UN number	3082
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BROMOXYNIL, PETROLEUM DISTILLATES SOLUTION)

### IATA

UN number	3082
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BROMOXYNIL, PETROLEUM DISTILLATES SOLUTION )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: COMPOUNDS, TREE OR WEED KILLING, N.O.I. other than poison, HAVING A DENSITY OF 20 LBS OR GREATER PER CUBIC FOOT

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## SECTION 15: REGULATORY INFORMATION

EPA Registration No.	264-1023
US Federal Regulations	
TSCA list	
Bromoxynil octanoate	1689-99-2
Naphthalene	91-20-3

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**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**  
None.

### SARA Title III - Section 302 - Notification and Information

None.

### SARA Title III - Section 313 - Toxic Chemical Release Reporting

Bromoxynil octanoate	1689-99-2
Naphthalene	91-20-3

### US States Regulatory Reporting

#### CA Prop65

This product contains a chemical known to the State of California to cause cancer.

Naphthalene	91-20-3
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This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Bromoxynil octanoate	1689-99-2	Developmental toxin.
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### US State Right-To-Know Ingredients

Bromoxynil octanoate	1689-99-2	NJ, RI
Naphthalene	91-20-3	CA, CT, IL, MN, NJ, RI

### Canadian Regulations

#### Canadian Domestic Substance List

None.

### Environmental

#### CERCLA

Naphthalene	91-20-3	100 lbs
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#### Clean Water Section 307 Priority Pollutants

Naphthalene	91-20-3
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#### Safe Drinking Water Act Maximum Contaminant Levels

Naphthalene	91-20-3
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### EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Warning!

**Hazard statements:** May be fatal if swallowed.  
Harmful if inhaled or absorbed through skin.  
Moderate eye irritation.  
Avoid contact with skin, eyes and clothing.  
Avoid breathing spray mist.

## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms

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49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
CAS-Nr.	Chemical Abstracts Service number
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

### **NFPA 704 (National Fire Protection Association):**

Health - 1      Flammability - 2      Instability - 1      Others - none

### **HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)**

Health - 1      Flammability - 2      Physical Hazard - 1      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** The following sections have been revised: Section 2: Hazards Identification. Section 11: Toxicological Information. SECTION 15: Regulatory information

**Revision Date:** 03/31/2016

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