

1/13

# **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

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

**Product identifier** 

Trade name WOLVERINE® ADVANCED HERBICIDE

Product code (UVP) 79214294

**SDS Number** 102000018284

**EPA Registration No.** 264-1168

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

USA

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

Serious eye damage, Aspiration hazard, Skin sensitisation: Category 1 Skin irritation, Reproductive toxicity, Carcinogenicity: Category 2 Acute toxicity(Oral, Inhalation): Category 4

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







Signal word: Danger

**Hazard statements** 

Causes serious eye damage.

May be fatal if swallowed and enters airways.

May cause an allergic skin reaction.



# **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

Causes skin irritation.

Suspected of damaging fertility or the unborn child.

Suspected of causing cancer.

Harmful if inhaled.

#### **Precautionary statements**

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Contaminated work clothing should not be allowed out of the workplace.

Avoid breathing mist/ spray.

Wash thoroughly after handling.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor/ physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of water/ soap.

If skin irritation or rash occurs: Get medical advice/ attention.

Specific treatment (see supplemental first aid instructions on this label).

Take off contaminated clothing and wash before reuse.

IF exposed or concerned: Get medical advice/ attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

Store locked up.

Dispose of contents/container in accordance with local regulation.

## **Hazards Not Otherwise Classified (HNOC)**

No physical hazards not otherwise classified.

No health hazards not otherwise classified.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Concentration % by weight
Bromoxynil octanoate	1689-99-2	6.13
Bromoxynil heptanoate	56634-95-8	5.93
Fenoxaprop-P-ethyl	71283-80-2	4.56
Pyrasulfotole	365400-11-9	1.50
Naphthalene	91-20-3	2.0
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	28.8
N,N-Dimethyl decanamide	14433-76-2	22.2
Fatty alcohol ethoxylate	78330-21-9	17.5
Dodecyl benzene sulphonate, calcium salt	26264-06-2	1.95
2-Ethylhexan-1-ol	104-76-7	1.3



# **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

## **SECTION 4: FIRST AID MEASURES**

Description of first aid measures

General advice When possible, have the product container or label with you when

calling a poison control center or doctor or going for treatment.

**Inhalation** 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.

Skin contact 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.

**Eye contact** 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.

Ingestion 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

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.

#### **SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

**Unsuitable** None known.

Special hazards arising from the substance or

from the substance

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.



# **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

Further information Keep out of smoke. Fight fire from upwind position. Cool closed

containers exposed to fire with water spray. Do not allow run-off from

fire fighting to enter drains or water courses.

Flash point 104.4 °C

Auto-ignition temperatureNo data availableLower explosion limitNo data availableUpper explosion limitNo data availableExplosivityNot applicable

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact

with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

**Methods for cleaning up** 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. Clean

contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.

Additional advice Use personal protective equipment. If the product is accidentally

spilled, 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.

## **SECTION 7: HANDLING AND STORAGE**

## Precautions for safe handling

Advice on safe handling Handle and open container in a manner as to prevent spillage. Maintain

exposure levels below the exposure limit through the use of general and

local exhaust ventilation.

**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.

Remove Personal Protective Equipment (PPE) immediately after

handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before

using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities



5/13

# **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

Requirements for storage areas and containers

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

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## **Control parameters**

Components	CAS-No.	Control parameters	Update	Basis	
Bromoxynil octanoate	1689-99-2	0.21 mg/m3 (SK-SEN)		OES BCS*	
Fenoxaprop-P-ethyl	71283-80-2	2.6 mg/m3 (TWA)		OES BCS*	
Pyrasulfotole	365400-11-9	0.3 mg/m3 (TWA)		OES BCS*	
Naphthalene	91-20-3	10 ppm (TWA)	02 2012	ACGIH	
Naphthalene	91-20-3	50 mg/m3/10 ppm (REL)	2010	NIOSH	
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	2010	NIOSH	
Naphthalene	91-20-3	50 mg/m3/10 ppm (PEL)	02 2006	OSHA Z1	
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	06 2008	TN OEL	
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA)	06 2008	TN OEL	
Naphthalene	91-20-3	0.5 mg/m3/0.1 ppm (TWA PEL)	10 2014	US CA OEL	
Naphthalene	91-20-3	10 ppm (TLV)		OES BCS*	
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	200 mg/m3 (TWA)	03 2014	ACGIH	
(Non-aerosol.)					
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	100 mg/m3 (REL)	2010	NIOSH	
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	400 mg/m3/100 ppm (REL)	2010	NIOSH	
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	400 mg/m3/100 ppm (PEL)	02 2006	OSHA Z1	
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	400 mg/m3/100 ppm (TWA)	06 2008	TN OEL	



## **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1,600 mg/m3/400 ppm (TWA PEL)	08 2010	US CA OEL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1,350 mg/m3/300 ppm (TWA PEL)	09 2013	US CA OEL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1,800 mg/m3/400 ppm (STEL)	09 2013	US CA OEL

<sup>\*</sup>OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

## **Biological occupational exposure limits**

Components	CAS-No.	Parameters	Biological specimen	Sampling time	Conc.	Basis
Naphthalene	91-20-3	1-Naphthol, with hydrolysis + 2-Naphthol, with hydrolysis		Sampling time: End of shift.		ACGI H BEI

## **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** Chemical resistant goggles must be worn.

**Skin and body protection** Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures 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
Odor aromatic

Odour Threshold No data available

**pH** 6.3 - 6.5 at 10 % (23 °C) (deionized water)



## **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

**Vapor Pressure** No data available Vapor Density (Air = 1) No data available **Density** 1.04 g/cm3 at 20 °C **Evaporation rate** No data available **Boiling Point** No data available **Melting / Freezing Point** No data available Water solubility emulsifiable **Minimum Ignition Energy** Not applicable

Decomposition temperature

Not applicable

Partition coefficient: n-

octanol/water

No data available

Viscosity 12 - 22 mPa.s Flash point 104.4 °C

Auto-ignition temperatureNo data availableLower explosion limitNo data availableUpper explosion limitNo data availableExplosivityNot applicable

## **SECTION 10: STABILITY AND REACTIVITY**

Reactivity

Thermal decomposition Not applicable

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Extremes of temperature and direct sunlight.

Incompatible materials No data available

**Hazardous decomposition** 

products

No decomposition products expected under normal conditions of use.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Ingestion, Eye contact, Skin Absorption, Inhalation

**Immediate Effects** 



## **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

**Eye** Corrosive - causes irreversible eye damage.

**Skin** Prolonged or frequently repeated skin contact may cause allergic

reactions in some individuals. Harmful if absorbed through skin.

**Ingestion** Harmful if swallowed.

Information on toxicological effects

Acute oral toxicity LD50 (female Rat) 1,105 mg/kg

Acute inhalation toxicity LC50 (Rat) > 2.02 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

highest concentration tested

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg

Skin irritationModerate skin irritation. (Rabbit)Eye irritationSevere eye irritation. (Rabbit)

**Sensitisation** Sensitising (Guinea pig)

Assessment STOT Specific target organ toxicity - repeated exposure

Bromoxynil 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.

Fenoxaprop-P-ethyl did not cause specific target organ toxicity in rats. Fenoxaprop-P-ethyl caused specific target organ toxicity in experimental animal studies in mice in the following organ(s): Kidney. Pvrasulfotole did not cause specific target organ toxicity in experimental animal studies.

#### Assessment mutagenicity

Bromoxynil was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

Fenoxaprop-P-ethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Pyrasulfotole was not genotoxic in a battery of in vitro and in vivo tests.

#### Assessment carcinogenicity

Bromoxynil 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. Fenoxaprop-P-ethyl demonstrated no carcinogenic potential in a lifetime feeding study in rats. Fenoxaprop-P-ethyl caused an increased incidence of liver tumours in mice at high doses. Fenoxaprop-P-ethyl causes tumours through peroxisome proliferation. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

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.

#### **ACGIH**

Naphthalene 91-20-3 Group A3 Solvent Naphtha (petroleum), heavy aromatic 64742-94-5 Group A3

**NTP** 

Naphthalene 91-20-3

**IARC** 



# **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

Naphthalene 91-20-3 Overall evaluation: 2B

**OSHA** 

None.

#### Assessment toxicity to reproduction

Bromoxynil did not cause reproductive toxicity in a two-generation study in rats. Fenoxaprop-P-ethyl did not cause reproductive toxicity in a two-generation study in rats. Pyrasulfotole did not cause reproductive toxicity in a two-generation study in rats.

# Assessment developmental toxicity

Bromoxynil caused a delayed foetal growth, an increased incidence of non-specific malformations.

Bromoxynil caused developmental toxicity only at dose levels toxic to the dams.

Fenoxaprop-P-ethyl did not cause developmental toxicity in rats and rabbits.

Pyrasulfotole did not cause developmental toxicity in rats and rabbits.

#### **Further information**

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).

#### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) 0.39 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.

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.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) > 1,058 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.

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.



10/13

## **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

Toxicity to aquatic plants EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.54 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.

EC50 (Navicula pelliculosa (Freshwater diatom)) 0.043 mg/l

Exposure time: 120 h

The value mentioned relates to the active ingredient bromoxynil

octanoate.

EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.083 mg/l

Exposure time: 120 h

The value mentioned relates to the active ingredient bromoxynil

heptanoate.

**Biodegradability** Bromoxynil:

Not rapidly biodegradable Fenoxaprop-P-ethyl: Not rapidly biodegradable

Pyrasulfotole:

Not rapidly biodegradable

**Koc** Bromoxynil: Koc: 108 - 239

Fenoxaprop-P-ethyl: Koc: 11354 Pyrasulfotole: Koc: 20 - 213

**Bioaccumulation** Bromoxynil: Bioconcentration factor (BCF) 230

Does not bioaccumulate.

Fenoxaprop-P-ethyl: Bioconcentration factor (BCF) 338

Does not bioaccumulate.

Pyrasulfotole:

Does not bioaccumulate.

**Mobility in soil** Bromoxynil: Moderately mobile in soils

Fenoxaprop-P-ethyl: Immobile in soil Pyrasulfotole: Moderately mobile in soils

**Environmental precautions** 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 contaminate surface or ground water by cleaning equipment or

disposal of wastes, including equipment wash water.

Apply this product as specified on the label.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

## Waste treatment methods

**Product** Do not contaminate water, food, or feed by disposal.

Dispose in accordance with all local, state/provincial and federal

regulations.

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label

instructions and applicable local guidelines.



# **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

**Contaminated packaging** Do not re-use empty packagings.

Triple rinse containers.

Puncture container to avoid re-use.

Dispose of empty container in a sanitary landfill or by incineration, or, if

allowed by State/Provincial and local authorities, by burning.

If burned, stay out of smoke.

Follow advice on product label and/or leaflet.

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.

#### **SECTION 14: TRANSPORT INFORMATION**

49CFR

UN number 3082
Class 9
Packaging group III

Marine pollutant Marine pollutant

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID,

N.O.S.

(FENOXAPROP-P-ETHYL, BROMOXYNIL, NAPHTHALENE)

RQ Reportable Quantity is reached with 5,000 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.

(FENOXAPROP-P-ETHYL, BROMOXYNIL SOLUTION)

IATA

UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(FENOXAPROP-P-ETHYL, BROMOXYNIL 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.



12/13

# **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

## **SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 264-1168

**US Federal Regulations** 

**TSCA list** 

Bromoxynil octanoate 1689-99-2 Naphthalene 91-20-3 Solvent Naphtha (petroleum), heavy 64742-94-5

aromatic

N,N-Dimethyl decanamide 14433-76-2 Fatty alcohol ethoxylate 78330-21-9 Dodecyl benzene sulphonate, calcium salt 26264-06-2 2-Ethylhexan-1-ol 104-76-7

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 1.0% Naphthalene 91-20-3 0.1%

**US States Regulatory Reporting** 

CA Prop65

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

Naphthalene 91-20-3

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.

**US State Right-To-Know Ingredients** 

Bromoxynil octanoate 1689-99-2 NJ

Naphthalene 91-20-3 CA, CT, IL, MN, NJ, RI Solvent Naphtha (petroleum), heavy 64742-94-5 CA, CT, MN, NJ, RI

aromatic

Dodecyl benzene sulphonate, calcium salt 26264-06-2 CA, CT, IL, NJ

2-Ethylhexan-1-ol 104-76-7 CT

**Canadian Regulations** 

**Canadian Domestic Substance List** 

None.

**Environmental** 

**CERCLA** 

Naphthalene 91-20-3

Dodecyl benzene sulphonate, calcium salt 26264-06-2 1,000 lbs

**Clean Water Section 307 Priority Pollutants** 

Naphthalene 91-20-3

Safe Drinking Water Act Maximum Contaminant Levels

Naphthalene 91-20-3



13/13

# **WOLVERINE® ADVANCED HERBICIDE**

Version 2.0 / USA Revision Date: 01/30/2018 102000018284 Print Date: 01/31/2018

## **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: Danger!

**Hazard statements:** Corrosive - causes irreversible eye damage.

Harmful if swallowed or absorbed through skin.

Prolonged or frequently repeated skin contact may cause allergic

reactions in some individuals.

Do not get in eyes, on skin, or on clothing.

#### **SECTION 16: OTHER INFORMATION**

## Abbreviations and acronyms

49CFR Code of Federal Regulations, Title 49
ACGIH US. ACGIH Threshold Limit Values

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances IARC International Agency for Research on Cancer 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 - 3 Flammability - 1 Instability - 0 Others - none

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

Health - 3 Flammability - 1 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.

**Revision Date: 01/30/2018** 

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