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BAYTHROID® XL

Version 5.0 / USA 102000013617

Revision Date: 03/27/2024 Print Date: 03/28/2024

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

Product identifier

Trade name BAYTHROID® XL

Product code (UVP) 05753952

SDS Number 102000013617

EPA Registration No. 264-840

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

Use Insecticide

Restrictions on useSee product label for restrictions.

Information on supplier

Supplier Bayer CropScience LP

800 North Lindbergh Blvd. St. Louis, MO 63167

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

Acute toxicity(Oral): Category 4
Acute toxicity(Inhalation): Category 3

Eye irritation: Category 2A Skin sensitisation: Category 1B Aspiration hazard: Category 1

Specific target organ toxicity - single exposure: Category 1

Carcinogenicity: Category 2

Reproductive toxicity: Effects on or via lactation

Flammable liquids: Category 4



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Signal word: Danger

Hazard statements

Harmful if swallowed.

Toxic if inhaled.

Causes serious eye irritation.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

Causes damage to organs.

Suspected of causing cancer.

May cause harm to breast-fed children.

Combustible liquid.

Precautionary statements

Obtain special instructions before use.

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

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Use only outdoors or in a well-ventilated area.

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

Wash thoroughly after handling.

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

Avoid contact during pregnancy/ while nursing.

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

Keep away from open flames/hot surfaces. - No smoking.

IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.

Do NOT induce vomiting.

Rinse mouth.

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

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

Wash contaminated clothing before reuse.

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.

IF exposed or concerned: Get medical advice/ attention.

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

IF exposed: Call a POISON CENTER or doctor/ physician.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Store in a well-ventilated place. Keep cool.

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.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

	Hazardous Component Name	CAS-No.	Concentration % by weight
Ш	Beta-Cyfluthrin	1820573-27-0	12.70
Ш	Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	54.7
П	Cyclohexanone	108-94-1	20.0
	Cyclohexanone Naphthalene	91-20-3	6.1
Ш	Detergent blend (proprietary)		5.8

The specific chemical identity and/or concentration range is being withheld because it is trade secret information.

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.

Hold eye open and rinse slowly and gently with water for 15-20 Eye contact

> 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

Irritation, sensitising effects, Central nervous system depression, **Symptoms**

Narcosis

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.



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SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

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

dioxide.

Unsuitable High volume water jet

Special hazards arising from the substance or

mixture

Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective

In the event of fire and/or explosion do not breathe fumes. Firefighters equipment for firefighters should wear NIOSH approved self-contained breathing apparatus and

full protective clothing.

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.

Specific hazards from the substance or mixture which can increase the fire

62.8 °C / 145.04 °F Flash point **Auto-ignition temperature** No data available Lower explosion limit No data available **Upper explosion limit** No data available **Explosivity** No data available

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid Methods for cleaning up

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.

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

spilled, do not allow to enter soil, waterways or waste water canal.

This substance contains 10% or more of an oil as defined in 49 CFR

130.5 when it is shipped in a package of 3,500 gallons or more.



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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

and open container in a manner as to prevent spillage.

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.

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

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 and out of the reach of children, preferably in a locked storage area. Keep away from direct sunlight.

Keep away from heat and sources of ignition.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Beta-Cyfluthrin	1820573-27- 0	0.01 mg/m3 (TWA)		OES BCS*
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1,600 mg/m3/400 ppm (TWA PEL)	09 2006	US CA OEL
Solvent Naphtha (petroleum), heavy aromatic (Non-aerosol.)	64742-94-5	200 mg/m3 (TWA)	03 2014	ACGIH
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	100 mg/m3 (REL)	2010	NIOSH
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	200 mg/m3 (TWA)	01 2021	ACGIH



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(Non-aerosol.)				
Cyclohexanone	nexanone 108-94-1 20 ppm (TWA)		02 2012	ACGIH
Cyclohexanone 108-94-		50 ppm (STEL)	02 2012	ACGIH
Cyclohexanone	108-94-1	100 mg/m3/25 ppm (REL)	2010	NIOSH
Cyclohexanone	108-94-1	200 mg/m3/50 ppm (PEL)	02 2006	OSHA Z1
Cyclohexanone	108-94-1	100 mg/m3/25 ppm (TWA)	1989	OSHA Z1A
Cyclohexanone 108-94-1 100 mg/m3/25 p (TWA)		100 mg/m3/25 ppm (TWA)	06 2008	TN OEL
Cyclohexanone	clohexanone 108-94-1 100 mg/m3/25 ppm (TWA PEL)		08 2010	US CA OEL
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 5		50 mg/m3/10 ppm (PEL)	02 2006	OSHA Z1
Naphthalene			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*

^{*}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
Cyclohexanone	108-94-1	1,2- Cyclohexane diol, with hydrolysis	Urine	Sampling time: End of shift at end of work week.	80 mg/l	ACGIH BEI
Cyclohexanone	108-94-1	Cyclohexanol , with hydrolysis	Urine	Sampling time: End of shift.	8 mg/l	ACGIH BEI
Naphthalene	91-20-3	1-Naphthol, with hydrolysis + 2-Naphthol, with		Sampling time: End of shift.		ACGIH BEI



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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 gloves (barrier laminate, butyl rubber, nitrile

rubber or Viton)

Eye protection Tightly fitting safety goggles

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

Information on basic physical and chemical properties

Form Liquid, clear Colour yellow to brown Odour characteristic **Odour Threshold** No data available

ca. 4.5 (1 %) (23 °C) (CIPAC D water (342ppm)) Hq

Melting point/range No data available **Boiling Point** No data available 62.8 °C / 145.04 °F Flash point **Flammability** No data available **Auto-ignition temperature** No data available Thermal decomposition No data available

Minimum ignition energy No data available Self-accelarating

decomposition temperature

(SADT)

No data available

Upper explosion limit No data available No data available Lower explosion limit



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Vapour pressure

Evaporation rate

Relative vapour density

Relative density

No data available

No data available

No data available

No data available

1.02 g/cm³ (20 °C)

Water solubility dispersible

Partition coefficient: n-

octanol/water

Beta-Cyfluthrin: log Pow: 6.18 (22 °C)

cyclohexanone: log Pow: 0.81

Viscosity, dynamic

Viscosity, kinematic

Oxidizing properties

No data available

No data available

No data available

No data available

Other information Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

Conditions to avoid Heat, flames and sparks.

Extremes of temperature and direct sunlight.

Incompatible materials No incompatible materials known.

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Ingestion, Inhalation, Eye contact, Skin contact

Immediate Effects

Eye Causes serious eye irritation.



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Skin

May be harmful in contact with skin. May cause sensitisation by skin

contact.

Ingestion Harmful if swallowed. Inhalation Very toxic by inhalation.

Information on toxicological effects

Acute oral toxicity LD50 (male Rat) 647 mg/kg

LD50 (female Rat) 695 mg/kg

Acute inhalation toxicity LC50 (male Rat) 0.7 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

(actual)

LC50 (female Rat) 0.9 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

(actual)

Acute dermal toxicity LD50 (male/female combined Rabbit) > 2,000 mg/kg

Skin corrosion/irritation Moderate skin irritation. (Rabbit) Serious eye damage/eye Severe eye irritation. (Rabbit)

irritation

Respiratory or skin sensitisation

Skin: Sensitising (Guinea pig)

Assessment STOT Specific target organ toxicity - single exposure

Beta-Cyfluthrin: Causes damage to organs (Nervous system)

cyclohexanone: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity - repeated exposure

The toxic effects of Beta-Cyfluthrin are related to transient neurobehavioral effects typical for pyrethroid neurotoxicity.

cyclohexanone did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

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

Assessment carcinogenicity

Beta-Cyfluthrin was not carcinogenic in lifetime feeding studies in rats and mice. cyclohexanone is not considered carcinogenic.

Naphthalene caused an increased incidence of tumours after chronic inhalation of high vapour concentrations in the following organ: Respiratory Tract. The tumours seen with naphthalene were caused through a non-genotoxic mechanism, which is not relevant at low doses.

ACGIH

Solvent Naphtha (petroleum), heavy aromatic 64742-94-5 Group A3 Cyclohexanone 108-94-1 Group A3



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Naphthalene 91-20-3 Group A3

NTP

Naphthalene 91-20-3

IARC

Solvent Naphtha (petroleum), heavy aromatic
Cyclohexanone
Naphthalene

64742-94-5
64742-94-5
0verall evaluation: 3 OCGEN
Overall evaluation: 3 OCGEN
Overall evaluation: 3 OCGEN
Overall evaluation: 3 OCGEN
Overall evaluation: 2 OVERN
Overall evaluation: 2 OVERN

Assessment toxicity to reproduction

Beta-Cyfluthrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Beta-Cyfluthrin is related to parental toxicity. Beta-Cyfluthrin is classified as reproductive toxicant in category for effects via lactation, mainly based on coarse tremors in pups of the 2-generation study. As a mechanism study for ocular effects in rat pups suggested possible adverse effect via milk, the active ingredient was classified with an additional category for effects on or via lactation.

cyclohexanone did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Beta-Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Beta-Cyfluthrin are related to maternal toxicity. cyclohexanone did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

May be fatal if swallowed and enters airways.

Further information

Acute toxicity studies have been bridged from a similar formulation(s).

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

No further toxicological information is available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 0.000068 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient beta-cyfluthrin.

Toxicity to aquatic EC50 (Daphnia magna (Water flea)) 0.00029 mg/l

invertebrates Exposure time: 48 h

The value mentioned relates to the active ingredient beta-cyfluthrin.

Toxicity to aquatic plants IC50 (Desmodesmus subspicatus (green algae)) > 0.01 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient beta-cyfluthrin.

No acute toxicity was observed at its limit of water solubility.

Biodegradability No data available



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Biodegradability Beta-Cyfluthrin:

Not rapidly biodegradable

cyclohexanone: rapidly biodegradable

Koc Beta-Cyfluthrin: Koc: 508 - 3179

cyclohexanone: Koc: 15.15

Bioaccumulation No data available

Bioaccumulation Beta-Cyfluthrin: Bioconcentration factor (BCF) 506

Does not bioaccumulate.

cyclohexanone: Bioconcentration factor (BCF) 129

Does not bioaccumulate.

Mobility in soil No data available

Mobility in soil Beta-Cyfluthrin: Immobile in soil

cyclohexanone: Mobile in soils

Distribution among environmental compartments

No data available

Results of PBT and vPvB assessment

No data available

PBT and vPvB assessment Beta-Cyfluthrin: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

cyclohexanone: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

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.

Do not apply when weather conditions favor runoff or drift.

Drift and runoff from treated areas may be hazardous to aquatic

organisms in adjacent sites.

Do not apply this product or allow it to drift to blooming crops or weeds if

bees are visiting the treatment area.

Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

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

regulations.



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Contaminated packaging Consult state and local regulations regarding the proper disposal of

container.

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

NA-Number 1993 Packaging group III

Proper shipping name COMBUSTIBLE LIQUID, N.O.S.

(BETA-CYFLUTHRIN, CYCLOHEXANONE, NAPHTHALENE)

RQ Reportable Quantity is reached with 1,639 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.

(BETA-CYFLUTHRIN, CYCLOHEXANONE SOLUTION)

IATA

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

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BETA-CYFLUTHRIN, CYCLOHEXANONE 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.

Further Information This substance contains 10% or more of an oil as defined in 49

CFR 130.5 when it is shipped in a package of 3,500 gallons or

more.

Freight Classification: INSECTICIDES OR FUNGICIDES O/T POISON

INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN

POISON



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SECTION 15: REGULATORY INFORMATION

EPA Registration No. 264-840

US Federal Regulations

TSCA list

Solvent Naphtha (petroleum), heavy 64742-94-5

aromatic

Cyclohexanone 108-94-1 Naphthalene 91-20-3

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Yes Yes

US States Regulatory Reporting

CA Prop65

WARNING: This product contains a chemical known to the State of California to cause cancer. For more

information go to www.P65Warnings.ca.gov.

Naphthalene 91-20-3

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Solvent Naphtha (petroleum), heavy 64742-94-5 CT, IL, NJ, RI

aromatic

Cyclohexanone 108-94-1 CA, CT, IL, MN, NJ, RI

Beta-Cyfluthrin 1820573-27-0 CT, NJ, RI

Naphthalene 91-20-3 CA, CT, IL, MN, NJ, RI

Environmental

CERCLA

Yes

Solvent Naphtha (petroleum), heavy 64742-94-5

aromatic

Yes

Cyclohexanone 108-94-1

Yes

Naphthalene 91-20-3

Listed.

Clean Water Section 307(a)(1)

Yes

Naphthalene 91-20-3

Safe Drinking Water Act Maximum Contaminant Levels



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Yes

Naphthalene 91-20-3

EPA/FIFRA Information:

This chemical is a pesticide product regulated 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: RESTRICTED USE PESTICIDE due to toxicity to fish and aquatic

organisms.

Causes substantial but temporary eye injury.

May be fatal if swallowed.

Harmful if inhaled or absorbed through skin.

Prolonged or frequently repeated skin contact may cause allergic

reactions in some individuals.

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



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NFPA 704 (National Fire Protection Association):

Health - 3 Flammability - 2 Instability - 1 Others - none

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

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

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

* = chronic health hazard

Reason for Revision: The following sections have been revised: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients. Section 6. Accidental Release Measures. Section 8: Exposure Controls / Personal Protection. Section 11: Toxicological Information. Section 12. Ecological information. Section 14: Transport Information. Section 16: Other Information. Reviewed and updated for general editorial purposes.

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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