

DEGREE XTRA® HERBICIDE

Version 3.0 / USA Revision Date: 05/03/2023 102000039867 Print Date: 05/04/2023

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

Product identifier

Trade name DEGREE XTRA® HERBICIDE

Product code (UVP) 62293290

SDS Number 102000039867

EPA Registration No. 524-511

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

Use Herbicide

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

Skin sensitisation, Respiratory sensitisation: Category 1

Specific target organ toxicity - single exposure(Inhalation): Category 3

Carcinogenicity, Specific target organ toxicity - repeated exposure: Category 2

Labelling in accordance with regulation HCS 29CFR §1910.1200





Signal word: Danger



DEGREE XTRA® HERBICIDE

 Version 3.0 / USA
 Revision Date: 05/03/2023

 102000039867
 Print Date: 05/04/2023

Hazard statements

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

Suspected of causing cancer.

May cause damage to organs (Kidney) through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.

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

Do not breathe gas/ mist/vapours/ spray.

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

In case of inadequate ventilation wear respiratory protection.

Use only outdoors or in a well-ventilated area.

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

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

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

IF exposed or concerned: Get medical advice/ attention.

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

Wash contaminated clothing before reuse.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ physician.

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

Store in a well-ventilated place. Keep container tightly closed.

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	
Acetochlor Atrazine Furilazole	34256-82-1	29.0	
Atrazine	1912-24-9	14.5	
Furilazole	121776-33-8	0.5	
Distillates (petroleum), hydrotreated light	64742-47-8	1.6	
encapsulating polymer (polyurea type)		2.8	

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.



DEGREE XTRA® HERBICIDE

 Version 3.0 / USA
 Revision Date: 05/03/2023

 102000039867
 Print Date: 05/04/2023

Skin contact Immediately wash with plenty of soap and water for at least 15

minutes. Take off contaminated clothing and shoes immediately. 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

Symptoms May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Treatment Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended.

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

In the event of fire the following may be released:, Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen

chloride (HCI)

Advice for firefighters

Special protective equipment for firefighters

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

full protective clothing. Equipment should be thoroughly

decontaminated after use.

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

Flash point does not flash

Auto-ignition temperature No data available

Lower explosion limit Not applicable



DEGREE XTRA® HERBICIDE

Version 3.0 / USA Revision Date: 05/03/2023 102000039867 Print Date: 05/04/2023

Upper explosion limitNot applicableExplosivityNot explosive

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

PrecautionsUse personal protective equipment. Keep unauthorized people away.

Avoid contact with spilled product or contaminated surfaces. Isolate

hazard area.

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. Keep in suitable, closed containers for disposal. 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. 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 Avoid contact with skin, eyes and clothing. Use only in area provided

with appropriate exhaust ventilation. Handle and open container in a

manner as to prevent spillage.

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. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. Keep working clothes separately. Garments that cannot be

cleaned must be destroyed (burnt).

Conditions for safe storage, including any incompatibilities



DEGREE XTRA® HERBICIDE

Version 3.0 / USA Revision Date: 05/03/2023 102000039867 Print Date: 05/04/2023

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 containers tightly closed in a dry, cool and well-ventilated place. Protect from freezing. Keep away from direct sunlight.

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
Atrazine	1912-24-9	5 mg/m3 (REL)	2005	NIOSH
Atrazine	1912-24-9	2 mg/m3 (TWA)	03 2017	ACGIH
(Inhalable fraction.)		, ,		
Atrazine	1912-24-9	5 mg/m3 (TWA PEL)	09 2006	US CA OEL
Atrazine	1912-24-9	5 mg/m3 (TWA)	06 2008	TN OEL
Atrazine	1912-24-9	2 mg/m3 (TWA)		OES BCS*
Distillates (petroleum), hydrotreated light	64742-47-8	100 mg/m3 (REL)	2005	NIOSH
Distillates (petroleum), hydrotreated light	64742-47-8	200 mg/m3 (TWA)	2008	ACGIH
(Non-aerosol.)				
Distillates (petroleum), hydrotreated light	64742-47-8	200 mg/m3 (TWA)	2008	ACGIH
(Non-aerosol.)				

^{*}OES BCS: Internal Bayer AG, Crop Science Division "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 gloves (barrier laminate, butyl rubber, nitrile



DEGREE XTRA® HERBICIDE

Version 3.0 / USA Revision Date: 05/03/2023 102000039867 Print Date: 05/04/2023

rubber or Viton)

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating,

drinking, smoking or using the toilet.

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
Colour off-white
Odour slight

Odour Threshold No data available

pH 7.8 - 9.5 (100 %) (23 °C)

Melting point/rangeNo data availableBoiling PointNo data availableFlash pointdoes not flashFlammabilityNot applicableAuto-ignition temperatureNo data availableThermal decompositionNo data available

Minimum ignition energyNot applicableSelf-accelaratingNo data available

decomposition temperature

(SADT)

No data available

Upper explosion limitNot applicableLower explosion limitNot applicable

Vapour pressure No significant volatility.

Evaporation rate No data available
Relative vapour density No data available

Relative density 1.1159

Density ca. 1.12 g/cm³ (20 °C)



DEGREE XTRA® HERBICIDE

Version 3.0 / USA Revision Date: 05/03/2023 102000039867 Print Date: 05/04/2023

Water solubility completely miscible

Partition coefficient: n-

octanol/water

Acetochlor: log Pow: 4.14 (20 °C)

Atrazine: log Pow: 2.7

Furilazole: log Pow: 2.12 (23 °C)

Viscosity, dynamic 200 - 650 mPa.s (10 °C)

Viscosity, kinematic

Oxidizing properties

No data available

Explosivity

Not explosive

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 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 Skin contact, Eye contact, Inhalation, Ingestion

Immediate Effects

Eye Not expected to produce significant adverse effects when

recommended use instructions are followed.

Skin May cause sensitisation by skin contact.

Ingestion Not expected to produce significant adverse effects when

recommended use instructions are followed.

Inhalation May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Information on toxicological effects



DEGREE XTRA® HERBICIDE

Version 3.0 / USA 102000039867

Revision Date: 05/03/2023 Print Date: 05/04/2023

Acute oral toxicity LD50 (Rat) > 5,000 mg/kg

Test conducted with a similar formulation.

Acute inhalation toxicity LC50 (Rat) > 2.47 mg/l

Exposure time: 4 h

Determined in the form of a respirable aerosol.

Highest attainable concentration.

No deaths

Test conducted with a similar formulation.

Acute dermal toxicity LD50 (Rat) > 5,000 mg/kg

Test conducted with a similar formulation.

Skin corrosion/irritation No skin irritation (Rabbit)

Test conducted with a similar formulation.

Serious eve damage/eve

irritation

No eye irritation (Rabbit)

Test conducted with a similar formulation.

Respiratory or skin

sensitisation

Skin: Sensitising (Guinea pig)

Test conducted with a similar formulation.

Respiratory system: Sensitising

The information is derived from the properties of the individual

components.

Assessment STOT Specific target organ toxicity - single exposure

Acetochlor: May cause respiratory irritation.

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

Assessment STOT Specific target organ toxicity - repeated exposure

Acetochlor caused specific target organ toxicity in experimental animal studies in the following organ(s): Kidney.

Atrazine caused specific target organ toxicity in experimental animal studies in the following organ(s):

Heart.

Furilazole caused specific target organ toxicity in experimental animal studies in the following organ(s): Liver.

Assessment mutagenicity

Acetochlor was not genotoxic based on weight of evidence analysis.

Atrazine is not considered mutagenic.

Furilazole was not genotoxic based on weight of evidence analysis.

Assessment carcinogenicity

Acetochlor caused an increased incidence of tumours in rats in the following organ(s): Nasal, Thyroid. Mode(s) of action not relevant to humans.

Acetochlor caused an increased incidence of tumours in rats, mice in the following organ(s): Liver. Only above the MTD (maximum tolerated dose). The observed effects do not appear to be relevant for humans.

Acetochlor caused lung tumours and histocytic sarcomas in mice, probably not treatment related.

Atrazine caused mammary tumours in rats. Mode(s) of action not relevant to humans.

Furilazole caused an increased incidence of tumours in rats, mice in the following organ(s): Liver. Only at doses that caused significant hepatotoxicity. Questionable relevance to humans.



DEGREE XTRA® HERBICIDE

Version 3.0 / USA 102000039867

Revision Date: 05/03/2023 Print Date: 05/04/2023

Furilazole caused an increased incidence of tumours in mice in the following organ(s): Lungs. Only at doses that caused chronic inflammation. Questionable relevance to humans.

Furilazole caused an increased incidence of tumours in rats in the following organ(s): forestomach. Only at doses that caused substantial irritation. The observed effects do not appear to be relevant for humans.

ACGIH

Atrazine 1912-24-9 Group A3 Distillates (petroleum), hydrotreated light 64742-47-8 Group A3

NTP

None.

IARC

Atrazine 1912-24-9 Overall evaluation: 3 Distillates (petroleum), hydrotreated light 64742-47-8 Overall evaluation: 3

Assessment toxicity to reproduction

Reproductive effects in rats seen with Acetochlor are only in the presence of significant maternal toxicity. Atrazine did not cause reproductive toxicity in laboratory animals.

Furilazole did not cause reproductive toxicity in laboratory animals.

Assessment developmental toxicity

Developmental effects in rats seen with Acetochlor are only in the presence of significant maternal toxicity.

Acetochlor did not cause developmental toxicity in rabbits. Testicular damage in dogs only in the presence of substantial systemic toxicity.

Developmental effects in rats, rabbits seen with Atrazine are only in the presence of significant maternal toxicity.

Furilazole did not cause developmental toxicity in rabbits. The developmental effects seen with Furilazole are related to maternal toxicity.

Aspiration hazard

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

Further information

No further toxicological information is available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 2.93 mg/l

flow-through test; Exposure time: 96 h
Test conducted with a similar formulation.

LC50 (Lepomis macrochirus (Bluegill sunfish)) 1.3 mg/l

static test; Exposure time: 96 h

The value mentioned relates to the active ingredient acetochlor.

LC50 (Lepomis macrochirus (Bluegill sunfish)) 8 mg/l

Exposure time: 96 h



DEGREE XTRA® HERBICIDE

Version 3.0 / USA 102000039867

invertebrates

Revision Date: 05/03/2023 Print Date: 05/04/2023

The value mentioned relates to the active ingredient atrazine.

LC50 (Oncorhynchus mykiss (rainbow trout)) 6.2 mg/l

static test; Exposure time: 96 h

The value mentioned relates to the safener furilazole.

LC50 (Lepomis macrochirus (Bluegill sunfish)) 4.6 mg/l

static test; Exposure time: 96 h

The value mentioned relates to the safener furilazole.

LC50 (Oncorhynchus mykiss (rainbow trout)) 0.36 - 1.2 mg/l

static test; Exposure time: 96 h

The value mentioned relates to the active ingredient acetochlor.

LC50 (Oncorhynchus mykiss (rainbow trout)) 8.8 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient atrazine.

Toxicity to aquatic EC50 (Daphnia m

EC50 (Daphnia magna (Water flea)) 27.5 mg/l flow-through test;

Exposure time: 48 h

Test conducted with a similar formulation.

EC50 (Daphnia magna (Water flea)) 8.6 - 16 mg/l static test; Exposure

time: 48 h

The value mentioned relates to the active ingredient acetochlor.

EC50 (Daphnia magna (Water flea)) 6.9 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient atrazine.

EC50 (Daphnia magna (Water flea)) 26 mg/l static test; Exposure time:

48 h

The value mentioned relates to the safener furilazole.

Toxicity to aquatic plants

EbC50 (Raphidocelis subcapitata (freshwater green alga)) 0.00501

mg/l

static test; Exposure time: 72 h

Test conducted with a similar formulation.

EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.00027 - 0.00149 mg/l

static test; Exposure time: 96 h

The value mentioned relates to the active ingredient acetochlor.

ErC50 (Raphidocelis subcapitata (freshwater green alga)) 85.2 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the safener furilazole.

EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.004 - 0.130

mg/l

static test; Exposure time: 96 h



DEGREE XTRA® HERBICIDE

 Version 3.0 / USA
 Revision Date: 05/03/2023

 102000039867
 Print Date: 05/04/2023

The value mentioned relates to the active ingredient atrazine.

EC50 (Lemna gibba (gibbous duckweed)) 0.170 mg/l

Exposure time: 5 d

The value mentioned relates to the active ingredient atrazine.

Biodegradability Acetochlor:

Not rapidly biodegradable

Atrazine:

Not readily biodegradable.

Furilazole: 1 %, Exposure time: 28 d

Not readily biodegradable.

Koc Acetochlor: Koc: 204

Furilazole: Koc: 56 - 341

Bioaccumulation Acetochlor: Bioconcentration factor (BCF) 20

Atrazine

On the basis of the partition coefficient n-octanol/water (log Pow) no

significant accumulation in organisms is expected.

Furilazole:

No significant accumulation in organisms.

Mobility in soil Acetochlor: Moderately persistent

Atrazine: Mobile in soils

Furilazole: Moderately persistent

Results of PBT and vPvB assessment

PBT and vPvB assessment Acetochlor: 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).

Atrazine: 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).

Furilazole: 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).

Additional ecological

information

No further ecological information is available.

Environmental precautions Apply this product as specified on the label.

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 allow to get into surface water, drains and ground water.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods



DEGREE XTRA® HERBICIDE

Version 3.0 / USA Revision Date: 05/03/2023 102000039867 Print Date: 05/04/2023

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

regulations.

Contaminated packaging Follow advice on product label and/or leaflet.

Consult state and local regulations regarding the proper disposal of

container.

Do not re-use empty containers.

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 Not dangerous goods / not hazardous material

IMDG

UN number 3082
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ACETOCHLOR, ATRAZINE SOLUTION)

IATA

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

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ACETOCHLOR, ATRAZINE 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.

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 524-511



13/14

DEGREE XTRA® HERBICIDE

Version 3.0 / USA Revision Date: 05/03/2023 102000039867 Print Date: 05/04/2023

US Federal Regulations

TSCA list

Water 7732-18-5
Atrazine 1912-24-9
Glycerine 56-81-5
Naphthalenesulfonic acid, polymer with 9084-06-4

formaldehyde, sodium salt

Distillates (petroleum), hydrotreated light 64742-47-8

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

US States Regulatory Reporting

CA Prop65

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

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Acetochlor 34256-82-1 Carcinogenic.

Atrazine 1912-24-9 Female reproductive toxin. Atrazine 1912-24-9 Developmental toxin.

Furilazole 121776-33-8 Carcinogenic.

US State Right-To-Know Ingredients

Atrazine 1912-24-9 CA, CT, MN, NJ, RI

Glycerine 56-81-5 MN, RI Distillates (petroleum), hydrotreated light 64742-47-8 CT, IL, NJ, RI

Environmental

CERCLA

Yes

Distillates (petroleum), hydrotreated light 64742-47-8

Clean Water Section 307(a)(1)

None.

Safe Drinking Water Act Maximum Contaminant Levels

Yes

Acetochlor 34256-82-1

Yes

Atrazine 1912-24-9

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:



DEGREE XTRA® HERBICIDE

Version 3.0 / USA Revision Date: 05/03/2023 102000039867 Print Date: 05/04/2023

Signal word: Caution!

Hazard statements: 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

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 0 Instability - 0 Others - none

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

Health - 2* Flammability - 0 Physical Hazard - 0 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 3: Composition / Information on Ingredients. Section 11: Toxicological Information. Section 15: Regulatory information. Section 16: Other Information. Reviewed and updated for general editorial purposes.

Revision Date: 05/03/2023

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

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