

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Printing date 09/27/2023

Version: 3.0

Reviewed on 09/27/2023

1 Identification

Product identifier

Product name: IRF6 UV-LED Ink, Yellow

Article number: I-6114 Application of the substance / the mixture: Printing inks

Details of the supplier of the safety data sheet Direct Color Systems 99 Hammer Mill Rd. Rocky Hill, CT 06067-USA Manufacturer/Supplier: Direct Color Systems 99 Hammer Mill Rd. Rocky Hill, CT 06067-USA Emergency telephone number US: 24/7 CHEMTREC 1-800-424-9300 Emergency telephone number International: 24/7 CHEMTREC +1 703-527-3887

2 Hazard(s) identification

Classification of the substance or mixture

Skin Corrosion 1C	H314	Causes severe skin burns and eye damage.
Eye Damage 1	H318	Causes serious eye damage.
Sensitization - Skin 1	H317	May cause an allergic skin reaction.
Carcinogenicity 1A	H350	May cause cancer.
Toxic to Reproduction 1B	H360	May damage fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure 3	Н335-Н336	May cause respiratory irritation. May cause drowsiness or dizziness.
Specific Target Organ Toxicity - Repeated Exposure 1	H372	Causes damage to organs through prolonged or repeated exposure.

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



Signal word Danger

Hazard-determining components of labeling: Tetrahydrofurfuryl Acrylate 3,3,5-Trimethylcyclohexyl acrylate nickel, 5,5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes 2H-Azepin-2-one, 1-ethenylhexahydro-Isobournyl Acrylate

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Neopentylglycol(PO)2 Diacrylate
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
Hazard statements
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause cancer.
May damage fertility or the unborn child.
May cause respiratory irritation. May cause drowsiness or dizziness.
Causes damage to organs 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 dusts or mists.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional information:
5.3 % of the mixture consists of component(s) of unknown toxicity.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:	
86178-38-3 3,3,5-Trimethylcyclohexyl acrylate	25 - 50%
Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1B, H317; Specific Target Organ Toxicity - Single Exposure 3, H336	
2399-48-6 Tetrahydrofurfuryl Acrylate	10 - 25%
Toxic to Reproduction 1B, H360; Skin Corrosion 1C, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317; Flammable Liquids 4, H227	
5888-33-5 Isobournyl Acrylate	10 - 25%
Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	

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84170-74-1 Neopentylglycol(PO)2 Diacrylate	≥ 2.5 - ≤ 10%
Sensitization - Skin 1, H317	
2235-00-9 2H-Azepin-2-one, 1-ethenylhexahydro-	2.5 - 10%
Specific Target Organ Toxicity - Repeated Exposure 1, H372; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	≤ 2.5%
Toxic to Reproduction 2, H361	
68511-62-6 nickel, 5,5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes	$\geq 0 - \leq 2.5\%$
Carcinogenicity 1A, H350	
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	≤ 2.5%
Sensitization - Skin 1A, H317	

4 First-aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment. **Special hazards arising from the substance or mixture** No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

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Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about protection against explosions and fires: Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see section 7.

Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information	lennear properties
Appearance:	
Form:	Liquid
Color:	Yellow
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. Not determined.
Vapor pressure:	Not determined.
Density: Relative density Vapor density Evaporation rate	Not determined. Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Fully miscible.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity: Dynamic:	Not determined.

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Kinematic:

Not determined.

Other information

No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 2,722 mg/kg

Dermal LD50 22,449 mg/kg

2399-48-6 Tetrahydrofurfuryl Acrylate

Oral LD50 928 mg/kg (rat)

2235-00-9 2H-Azepin-2-one, 1-ethenylhexahydro-

Oral LD50 500 mg/kg (ATE)

Dermal LD50 1,100 mg/kg (ATE)

Primary irritant effect:

on the skin: Strong caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

68511-62-6 nickel, 5,5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes: 1

105-60-2 1,6-hexanolactam: 3

108-88-3 Toluene: 3

NTP (National Toxicology Program)

68511-62-6 nickel, 5,5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes: K

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. **Behavior in environmental systems:** Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. **Ecotoxical effects:** Remark: Very toxic for fish Additional ecological information: **General notes:** Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms **Results of PBT and vPvB assessment PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

UN-Number	
DOT	not regulated
IMDG, IATA	UN3082
UN proper shipping name	
DOT	not regulated
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (3,3,5-Trimethylcyclohexyl acrylate, Tetrahydrofurfuryl
	Acrylate), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (3,3,5-Trimethylcyclohexyl acrylate, Tetrahydrofurfuryl
	Acrylate)
	-

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Transport hazard class(es)	
DOT	
Class	not regulated
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT	not regulated
IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Hazard identification number (Kemler o	code): 90
EMS Number:	F-A,S-F
Stowage Category	А
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
UN "Model Regulation":	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-TRIMETHYLCYCLOHEXYL ACRYLATE, TETRAHYDROFURFURYL ACRYLATE), 9, III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture SARA

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

68511-62-6 nickel, 5,5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes

TSCA (Toxic Substances Control Act):

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

86178-38-3 3,3,5-Trimethylcyclohexyl acrylate: ACTIVE

5888-33-5 Isobournyl Acrylate: ACTIVE

84170-74-1 Neopentylglycol(PO)2 Diacrylate: ACTIVE

2235-00-9 2H-Azepin-2-one, 1-ethenylhexahydro-: ACTIVE

75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide: ACTIVE

68511-62-6 nickel, 5,5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes: ACTIVE

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Hazardous Air	bis(2,4,6-trimethylbenzoyl)-phosphine oxide: ACTIVE Pollutants
108-88-3 Toluene	
Proposition 65	
<u>Chemicals know</u>	wn to cause cancer:
58511-62-6 nickel, 5,	5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes
<u>Chemicals know</u>	wn to cause reproductive toxicity for females:
None of the ingredien	ts is listed.
<u>Chemicals know</u>	wn to cause reproductive toxicity for males:
	5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes
<u>Chemicals know</u>	vn to cause developmental toxicity:
58511-62-6 nickel, 5,	5'-azobis-2,4,6(1h,3h,5h)-pyrimidinetrione complexes
108-88-3 Toluene	
Carcinogenic cat	egories
	nental Protection Agency)
108-88-3 Toluene: II	
110-82-7 cyclohexane	s. I
TLV (Threshol	
105-60-2 1,6-hexanol	
108-88-3 Toluene: A4	
	tional Institute for Occupational Safety and Health)
Hazard pictogram	s The product is classified and labeled according to the Globally Harmonized System (GHS). ns
Hazard pictogram	ns Construction of the second se
	ns Construction of the second se
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Hazard pictogram Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcyd	ns GHS08 ger hing components of labeling: I Acrylate clohexyl acrylate
Hazard pictogram Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcy- nickel, 5,5'-azobis-	ns GHS08 ger hing components of labeling: I Acrylate clohexyl acrylate -2,4,6(1h,3h,5h)-pyrimidinetrione complexes
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Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcy nickel, 5,5'-azobis- 2H-Azepin-2-one, Isobournyl Acryla	ns GHS08 ger ing components of labeling: I Acrylate clohexyl acrylate -2,4,6(1h,3h,5h)-pyrimidinetrione complexes 1-ethenylhexahydro- te
Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcy nickel, 5,5'-azobis 2H-Azepin-2-one, Isobournyl Acryla Neopentylglycol(F	ns GHS08 ger ing components of labeling: I Acrylate clohexyl acrylate -2,4,6(1h,3h,5h)-pyrimidinetrione complexes 1-ethenylhexahydro- te
Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcyd nickel, 5,5'-azobis 2H-Azepin-2-one, Isobournyl Acryla Neopentylglycol(F	ns GHS08 ger ing components of labeling: Acrylate clohexyl acrylate -2,4,6(1h,3h,5h)-pyrimidinetrione complexes 1-ethenylhexahydro- te O)2 Diacrylate imethylbenzoyl)-phosphine oxide
Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcyd nickel, 5,5'-azobis- 2H-Azepin-2-one, Isobournyl Acryla Neopentylglycol(F phenyl bis(2,4,6-tri Hazard statemen Causes severe skin	ns GHS08 ger ing components of labeling: Acrylate clohexyl acrylate -2,4,6(1h,3h,5h)-pyrimidinetrione complexes 1-ethenylhexahydro- te O)2 Diacrylate imethylbenzoyl)-phosphine oxide ts burns and eye damage.
Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcynickel, 5,5'-azobis 2H-Azepin-2-one, Isobournyl Acrylan Neopentylglycol(F phenyl bis(2,4,6-tri Hazard statemen Causes severe skir May cause an alle	ns GHS08 ger ing components of labeling: A crylate clohexyl acrylate -2,4,6(1h,3h,5h)-pyrimidinetrione complexes 1-ethenylhexahydro- te O)2 Diacrylate imethylbenzoyl)-phosphine oxide ts a burns and eye damage. rgic skin reaction.
Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcyn nickel, 5,5'-azobis 2H-Azepin-2-one, Isobournyl Acryla Neopentylglycol(F phenyl bis(2,4,6-tu Hazard statemen Causes severe skir May cause an alle May cause cancer.	ns GHS08 ger ing components of labeling: 1 Acrylate clohexyl acrylate -2,4,6(1h,3h,5h)-pyrimidinetrione complexes 1-ethenylhexahydro- te PO)2 Diacrylate imethylbenzoyl)-phosphine oxide ts a burns and eye damage. rgic skin reaction.
Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcyn nickel, 5,5'-azobis- 2H-Azepin-2-one, Isobournyl Acryla Neopentylglycol(F phenyl bis(2,4,6-tri Hazard statemen Causes severe skir May cause an alle May cause cancer. May damage fertil	ns
Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcy- nickel, 5,5'-azobis- 2H-Azepin-2-one, Isobournyl Acryla Neopentylglycol(F phenyl bis(2,4,6-tri Hazard statemen Causes severe skir May cause an alle May cause cancer. May damage fertil May cause respira	ns
Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcyn nickel, 5,5'-azobis- 2H-Azepin-2-one, Isobournyl Acryla Neopentylglycol(F phenyl bis(2,4,6-tri Hazard statemen Causes severe skir May cause an alle May cause cancer. May damage fertil May cause respira Causes damage to	ns V GHS08 ger ing components of labeling: 1 Acrylate clohexyl acrylate -2,4,6(1h,3h,5h)-pyrimidinetrione complexes 1-ethenylhexahydro- te O)2 Diacrylate imethylbenzoyl)-phosphine oxide ts n burns and eye damage. rgic skin reaction. ity or the unborn child. tory irritation. May cause drowsiness or dizziness. organs through prolonged or repeated exposure.
Hazard pictogram GHS05 GHS07 Signal word Dang Hazard-determin Tetrahydrofurfury 3,3,5-Trimethylcyn nickel, 5,5'-azobis 2H-Azepin-2-one, Isobournyl Acryla Neopentylglycol(F phenyl bis(2,4,6-tr Hazard statemen Causes severe skir May cause an alle May cause cancer. May damage fertil May cause respira Causes damage to Precautionary sta	ns A GHS08 ger ing components of labeling: 1 Acrylate clohexyl acrylate -2,4,6(1h,3h,5h)-pyrimidinetrione complexes 1-ethenylhexahydro- te O)2 Diacrylate imethylbenzoyl)-phosphine oxide ts h burns and eye damage. rgic skin reaction. ity or the unborn child. tory irritation. May cause drowsiness or dizziness. organs through prolonged or repeated exposure.

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

Do not breathe dusts or mists. Wash thoroughly after handling.

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Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H227 Combustible liquid.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

Contact:

Date of preparation / last revision 09/27/2023

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

ILV: Infestiold Limit value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

US

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Flammable Liquids 4: Flammable liquids – Category 4 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Skin Corrosion 1C: Skin corrosion/irritation – Category 1C Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Damage 1: Serious eye damage/eye irritation – Category 1 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Sensitization - Skin 1: Skin sensitisation – Category 1 Sensitization - Skin 1A: Skin sensitisation – Category 1A Sensitization - Skin 1A: Skin sensitisation – Category 1B Carcinogenicity 1A: Carcinogenicity – Category 1A Toxic to Reproduction 1B: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 1 *** Data compared to the previous version altered.**