Red 7337 Liquid

(Product type: Solvent Soluble Dye)

Version number GHS 4.0
Replaces version of 2017-02-13 GHS 3

Revision date 2023-02-15
Date format: yyyy-mm-dd

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Indentifier(s)

Trade name Red 7337 Liquid

Former trade name(s) Solvent Red 7337 Liquid

Item code(s) D7337, D7337L

Alternative name(s) Liquid solution of Solvent Red 164

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

Relevant identified uses: Dye
Industrial use
Professional use

Uses advised against: Not for use with foodstuffs, pharmaceutical products or cosmetics.This product is for industrial and professional use only; it is not intended for household use.

1.3 Details of the supplier of the safety data sheet

Robert Koch Industries, Inc.
4770 N. Harback Road
Bennett. CO 80102
United States
Telephone. +1 303.644.3763
Fax. +1 303.644.3045
Horario normal de trabajo: 0800 - 1700 MST/DST (UTC-7)
e-mail: sales@kochcolor.com.
Website. www.kochcolor.com.

1.4 Emergency telephone number

1.800.535.5053 Infotrac (24 hours) USA and Canada
Outside of USA or Canada, call +1 352.323.3500

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.3	Serious eye damage/eye irritation.	2A	Eye Irrit. 2A	H319
A.7	Reproductive toxicity.	2	Repr. 2	H361
A.9	Specific target organ toxicity - repeated exposure.	2	STOT RE 2	H373

Supplemental hazard information

Code	Supplemental hazard information
HNOC003	May be harmful if inhaled (GHS category 5: acutely toxic - inhalation)
HNOC008	Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic)

Remarks / Additional Information

Forty-Five percent (45%) of this mixture contains ingredients of unknown toxicity and ecotoxicity.

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word **Warning**

Pictograms

GHS07, GHS08, GHS09

Hazard statements

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs (liver, spleen) through prolonged or repeated exposure.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe vapor, mist, spray.

P264 Wash ... thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

P314 Get medical advice/attention if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container according to applicable federal, state, and local regulations.

Hazardous ingredients for labelling 2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs.

2.3 Other hazards

Hazards not otherwise classified

May be harmful if inhaled (GHS category 5: acutely toxic - inhalation).

Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

Name of substance	Identifier		Wt%	Classification acc. to GHS
Distillates (petroleum), hydrotreated light naphthenic (UVCB substance)	CAS No EC No	64742-53-6 265-156-6	25 – < 50	Acute Tox. 4 / H332 Asp. Tox. 1 / H304
2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs.	CAS No EC No	92257-31-3 296-120-8	25 – < 50	Repr. 2 / H361 STOT RE 2 / H373 HNOC008

This product is not classified as a carcinogen because the hydrotreated light napthenic distillates contain less than 3% DMSO (dimethyl-sulfoxide) extract as measured by IP 346 (Dir. 2001/59/EC).

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

If irritation or symptoms occur from any route of exposure, remove the affected individual from the area. Remove contaminated clothing and launder before reuse. Symptoms may not occur immediately but may appear up to 48 hours after exposure. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

If inhalation causes irritation, move to fresh air. If symptoms develop or person does not feel well, get medical advice/attention.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Flush eyes with clean water for fifteen (15) minutes. Remove contact lenses if safe to do so. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by holding the eyelids open with fingers and rolling eyes in a circular motion. Get medical attention.

Following ingestion

Rinse mouth with water. Do NOT induce vomiting unless instructed to do so by medical personnel. Get medical advice/attention. If vomiting should occur naturally, keep head position low so contents from stomach do not get into lungs. This will help reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Dermal contact may temporarily discolor skin due to dye characteristics.

4.3 Indication of any immediate medical attention and special treatment needed

None known. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

In case of fire use water fog, foam, carbon dioxide (CO2), dry chemical.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Irritating or toxic substances may be emitted upon burning, combustion or decomposition.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Follow emergency procedures such as the need to evacuate the area, notify authorities or to consult an expert. Keep unnecessary personnel away. Wear personal protective equipment to prevent injury. See section 8 of this SDS. Ensure adequate ventilation.

6.2 Environmental precautions

If substance has entered a water course or sewer, inform the responsible authority. Do not flush product down drains that discharge into public sewer systems. Do not pour onto the ground. Do not release into surface waters such as lakes, rivers and streams. Dispose of unusable product, wash water, and contaminated materials properly. See section 13 for disposal considerations.

6.3 Methods and materials for containment and cleanup

Cover floor drains. Prevent spilled material from leaving the area if safe to do so. Collect spill using an absorbent material. Suitable absorbent material(s) include: Kieselgur (diatomite). Sawdust. Sand. Universal binder.
Collect spilled material and place into suitable container(s) for reuse or disposal. Label containers appropriately.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Explosive atmospheres

Store in a closed container.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

this information is not available

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Hand protection

Wear chemical resistant protective gloves.

Other protection measures

Wear protective clothing (coveralls with hood) to reduce the possibility of stains to skin and clothing. Wash thoroughly after handling. An eyewash station and/or safety shower is recommended in the work area.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If inhalation of dust, mist, or vapor is possible, wear an approved respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

Environmental exposure controls

Protect against release into the environment using preventative containment measures. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Colour	Dark red
Particle	Not relevant Liquid
Odour	Characteristic - Aromatic solvent like odor
Other safety parameters	
pH (value)	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	230 °C, 446 °F
Flash point	>100 °C, >212 °F
Evaporation rate	Not determined
Flammability (solid, gas)	Not relevant Fluid
Vapour pressure	Not determined
Density	Not determined
Vapour density	This information is not available
Relative density	0.95 at 20 °C (water = 1) 7.93 lb/gal (typical value)
Solubility(ies)	Soluble in most hydrocarbons and non-polar solvents.
Water solubility	Insoluble
Partition coefficient **- n-octanol/water (log KOW)**	This information is not available
Auto-ignition temperature	Not determined
Viscosity	
Kinematic viscosity	100 mm^2/s at 40 °C 100 mm^2/s at 104 °F
Explosive properties	None
Oxidising properties	None

9.2 Other information

Temperature class (USA, acc. to NEC 500)	T1 Maximum permissible surface temperature on the equipment: 450°C, 842°F

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Strong oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful if inhaled.

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Distillates (petroleum), hydrotreated light naphthenic (UVCB substance)	64742-53-6	Inhalation: vapour	11 $^{mg}/_{l}$/4h
Distillates (petroleum), hydrotreated light naphthenic (UVCB substance)	64742-53-6	Inhalation: dust/mist	2.18 $^{mg}/_{l}$/4h

Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Source
Distillates (petroleum), hydrotreated light naphthenic (UVCB substance)	64742-53-6	Oral	LD50	>5,000 $^{mg}/_{kg}$	Rat	European Chemicals Agency, http://echa.europa.eu/
Distillates (petroleum), hydrotreated light naphthenic (UVCB substance)	64742-53-6	Inhalation: dust/mist	LC50	2.18 $^{mg}/_{l}$/4h	Rat	European Chemicals Agency, http://echa.europa.eu/
Distillates (petroleum), hydrotreated light naphthenic (UVCB substance)	64742-53-6	Dermal	LD50	>5,000 $^{mg}/_{kg}$	Rabbit	European Chemicals Agency, http://echa.europa.eu/
2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs.	92257-31-3	Oral	LD50	>5,000 $^{mg}/_{kg}$	Rat	European Chemicals Agency, http://echa.europa.eu/

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Suspected of damaging the unborn child. Suspected of damaging fertility.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

May cause damage to organs (liver, spleen) through prolonged or repeated exposure.

Hazard category	Target organ	Exposure route
2	Liver	If exposed
2	Spleen	If exposed

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Source	Exposure time
Distillates (petroleum), hydrotreated light naphthenic (UVCB substance)	64742-53-6	LL50	>100 $^{mg}/_{l}$	Fish	European Chemicals Agency, http://echa.europa.eu/	96 h
Distillates (petroleum), hydrotreated light naphthenic (UVCB substance)	64742-53-6	EL50	>10,000 $^{mg}/_{l}$	Aquatic invertebrates	European Chemicals Agency, http://echa.europa.eu/	24 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Source	Exposure time
Distillates (petroleum), hydrotreated light naphthenic (UVCB substance)	64742-53-6	EL50	>10,000 $^{mg}/_{l}$	Aquatic invertebrates	European Chemicals Agency, http://echa.europa.eu/	24 h
Distillates (petroleum), hydrotreated light naphthenic (UVCB substance)	64742-53-6	LL50	>10,000 $^{mg}/_{l}$	Aquatic invertebrates	European Chemicals Agency, http://echa.europa.eu/	24 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs.	92257-31-3		>6.5 (pH value: 6.4, 30 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste Treatment Methods / Disposal Instructions

Avoid release to the environment. Do not contaminate ponds, waterways or ditches with product or container. Dispose of contents/container in accordance with applicable local, regional, national, and international regulations.

Sewage disposal-relevant information

Do not allow this material to enter floor drains, sewer drains or storm drains.

Waste treatment of containers/packagings

Containers containing product or product residue should be disposed of in the same manner as the product. Completely emptied and thoroughly cleaned containers can be recycled.

SECTION 14: Transport information

14.1 UN number

IMDG-Code	UN 3082
ICAO-TI	UN 3082
UN proper shipping name	Not assigned
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
Technical nameHazardous ingredients	2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs.

14.3 Transport hazard class(es)

IMDG-Code	9
ICAO-TI	9

14.4 Packing group

IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

	Hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs.

14.6 Special precautions for user

There is no additional information.

14.8 Information for each of the UN Model Regulations

14.8.3 Transport of dangerous goods by road or rail (49 CFR US DOT)

Not regulated by the United States Department of Transportation (DOT) for transport by road or rail in less than bulk packagings (less than 119 gallons [450 liters] or less than 882-pounds [400-kilograms]).

14.8.6 International Maritime Dangerous Goods Code (IMDG)

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Particulars in the shipper's declaration	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: 2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs.), 9, III
Marine pollutant	yes hazardous to the aquatic environment 2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs.
Danger label(s)	9 fish and tree

Special provisions (SP)	274, 335, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A

14.8.7 International Civil Aviation Organization (ICAO-IATA/DGR)

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Particulars in the shipper's declaration	UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: 2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs.), 9, III
Environmental hazards	yes hazardous to the aquatic environment
Danger label(s)	9 fish and tree

Special provisions (SP)	A97, A158, A197, A215 A197—is a special provision assigned to codes UN 3077 and UN 3082 that allows these materials to be shipped as “not restricted” provided that the net quantity in any receptacle does not exceed 5 kg or 5 L and the packaging used meets defined standards. The environmentally hazardous substance mark is not required on single packagings.
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

SECTION 15: Regulatory information

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

National regulations (United States)

Toxic Substance Control Act (TSCA)

All ingredients are listed as "ACTIVE".

Superfund Amendment and Reauthorization Act (SARA TITLE III)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

None of the ingredients are listed.

Specific Toxic Chemical Listings (EPCRA Section 313)

None of the ingredients are listed.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

None of the ingredients are listed.

Clean Air Act

None of the ingredients are listed.

Toxic or Hazardous Substance List (MA-TURA)

None of the ingredients are listed.

Hazardous Substances List (MN-ERTK)

None of the ingredients are listed.

Hazardous Substance List (NJ-RTK)

None of the ingredients are listed.

Hazardous Substance List (Chapter 323) (PA-RTK)

None of the ingredients are listed.

Hazardous Substance List (RI-RTK)

None of the ingredients are listed.

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1986

None of the ingredients are listed.

Drug precursorsChemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

None of the ingredients are listed.

VOC content

Regulated Volatile Organic Compounds (VOC-EPA): 0 %.
Regulated Volatile Organic Compounds (VOC-Cal ARB): 0 %.

Industry or sector specific available guidance(s)
NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	1	Material that must be preheated before ignition can occur
Health	0	Material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	Material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
AU	AIIC	Not all ingredients are listed
CA	DSL	All ingredients are listed
CN	IECSC	All ingredients are listed
EU	ECSI	All ingredients are listed
EU	REACH Reg.	All ingredients are listed
KR	KECI	All ingredients are listed
NZ	NZIoC	All ingredients are listed
PH	PICCS	All ingredients are listed
TR	CICR	All ingredients are listed
TW	TCSI	All ingredients are listed
US	TSCA	All ingredients are listed as "ACTIVE"

Legend

AIIC	Australian Inventory of Industrial Chemicals.
CICR	Chemical Inventory and Control Regulation.
DSL	Domestic Substances List (DSL).
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP).
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China.
KECI	Korea Existing Chemicals Inventory.
NZIoC	New Zealand Inventory of Chemicals.
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS).
REACH Reg.	REACH registered substances.
TCSI	Taiwan Chemical Substance Inventory.
TSCA	Toxic Substance Control Act.

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Cal ARB	California Air Resources Board
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
EPA	Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
Log KOW	n-Octanol/water
NLP	No-Longer Polymer
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
Repr.	Reproductive toxicity

Abbr.	Descriptions of used abbreviations
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
STOT RE	Specific target organ toxicity - repeated exposure
VOC	Volatile Organic Compounds
VPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture.
Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs (liver, spleen) through prolonged or repeated exposure.

Disclaimer

This information is based upon the present state of our knowledge. As the conditions or methods of use are beyond our control, Robert Koch Industries, Inc. do not assume any responsibility and expressly disclaims any liability for any use of this product. Information contained herein is believed to be true and accurate and is made in good faith but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This Safety Data Sheet (SDS) cannot cover all possible situations which the user may experience during use of this product. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to develop appropriate work practice guidelines and employee instructional programs for your operation.
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