

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 16-Aug-2022 Revision Number 1

1. Identification

Product identifier

Product Name PCB No. 30 100 μg/mL in Isooctane

Other means of identification

Product Code(s) DRE-XA20003000IO

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Laboratory use

Restrictions on use Not to be used for human or animal consumption

Details of the supplier of the safety data sheet

Supplier Address

VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA

Tel:+1 (603) 622-7660 Fax:+1 (603) 622-5180 Email: lgcusa@lgcgroup.com

Web: Igcstandards.com

E-mail sds-request@lgcgroup.com

Emergency telephone number

Emergency Telephone

For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

2. Hazard(s) identification

Classification

AGHS / EN Page 1/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 µg/mL in Isooctane

Revision date 16-Aug-2022

Classified according to OSHA.

Skin corrosion/irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration hazard	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1
Flammable liquids	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger

Hazard statements

Classified according to OSHA.

Causes skin irritation

May cause drowsiness or dizziness

Very toxic to aquatic life with long lasting effects

May be fatal if swallowed and enters airways

Highly flammable liquid and vapor



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/eye protection/face protection

Keep cool

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

Wash contaminated clothing before reuse

AGHS / EN Page 2/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 µg/mL in Isooctane

Revision date 16-Aug-2022

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

Call a POISON CENTER or doctor if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store locked up

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

No information available.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical nature Mixture of organic compounds.

Chemical name	CAS No	Weight-%	Trade secret
2,2,4-Trimethylpentane	540-84-1	80 - 100	*

4. First-aid measures

Description of first aid measures

Show this safety data sheet to the doctor in attendance. Immediate medical attention is **General advice**

required.

Inhalation Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing

has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed

pulmonary edema may occur.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep Eye contact

eye wide open while rinsing. Do not rub affected area.

Wash off immediately with soap and plenty of water while removing all contaminated clothes Skin contact

and shoes. Get medical attention if irritation develops and persists.

AGHS / EN Page 3/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 $\mu g/mL$ in Isooctane

Revision date 16-Aug-2022

300ctari

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Get immediate medical advice/attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin,

eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

Indication of any immediate medical attention and special treatment needed

Note to physicians Because of the danger of aspiration, emesis or gastric lavage should not be employed

unless the risk is justified by the presence of additional toxic substances.

5. Fire-fighting measures

Suitable Extinguishing Media

Large Fire

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge

Yes.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate

AGHS / EN Page 4/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 μg/mL in

Revision date 16-Aug-2022

Isooctane

ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

8. Exposure controls/personal protection

AGHS / EN Page 5/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 μg/mL in

Revision date 16-Aug-2022

Isooctane

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
2,2,4-Trimethylpentane 540-84-1	TWA: 300 ppm	-	-

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields

(or goggles).

Hand protection Wear protective nitrile rubber gloves. Wear suitable gloves. Impervious gloves. The

protective gloves to be used must comply with the specifications of EC Directive

89/686/EEC and the related standard EN374.

Skin and body protection Long sleeved clothing. Chemical resistant apron. Antistatic boots. Wear suitable protective

clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

General hygiene considerations Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of

equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear

suitable gloves and eye/face protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Color colorless

AGHS / EN Page 6/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 µg/mL in

Revision date 16-Aug-2022

Isooctane

Odor Petroleum distillates

Odor threshold No information available

Property Values Remarks • Method

рΗ No data available None known Melting point / freezing point -107 °C / -160.6 °F None known Initial boiling point and boiling range99 °C / 210.2 °F None known -9 °C / 15.8 °F Flash point None known **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive 6 Vol% - 290 g/m3

limits

0.7 Vol% - 34 g/m3 Lower flammability or explosive

limits

53 hPa @ 20°C Vapor pressure Relative vapor density 3.94 None known Relative density 0.69 None known Water solubility No data available None known Solubility(ies) No data available None known Partition coefficient 4.08 None known

410 °C / 770 °F **Autoignition temperature** None known

Decomposition temperature

None known Kinematic viscosity No data available None known **Dynamic viscosity** 0.501 mPas @ 20°C

Other information

No information available **Explosive properties Oxidizing properties** No information available Softening point No information available Molecular weight No information available **VOC Content (%)** No information available **Liquid Density** No information available **Bulk density** No information available

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Heat, flames and sparks.

Strong acids. Strong bases. Strong oxidizing agents. Incompatible materials

Hazardous decomposition products None known based on information supplied.

AGHS / EN Page 7/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 µg/mL in Isooctane

Revision date 16-Aug-2022

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Aspiration into lungs can

produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be

fatal. May cause drowsiness or dizziness.

Eye contact Specific test data for the substance or mixture is not available. May cause irritation.

Skin contact Repeated exposure may cause skin dryness or cracking. Specific test data for the

substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Potential for aspiration if

swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness **Symptoms**

and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Numerical measures of toxicity

Component Information

ounpondin inionianon			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,2,4-Trimethylpentane 540-84-1	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 14.38 mg/L (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation No information available.

No information available. Respiratory or skin sensitization

AGHS / EN Page 8 / 14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - $\,$ PCB No. 30 100 $\mu g/mL$ in

Revision date 16-Aug-2022

Isooctane

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure May cause drowsiness or dizziness.

STOT - repeated exposureNo information available.

Aspiration hazard May be fatal if swallowed and enters airways.

Other adverse effects

No information available.

Interactive effects

No information available.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2,2,4-Trimethylpentane	-	LC50:=18.4mg/L (96h,	-	EC50: =0.02856mg/L
540-84-1		Oncorhynchus mykiss)		(48h, Daphnia magna)

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient		
2,2,4-Trimethylpentane 540-84-1	4.08		

Other adverse effects No information available.

13. Disposal considerations

AGHS / EN Page 9/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 µg/mL in

Revision date 16-Aug-2022

Isooctane

Disposal methods

Waste from residues/unused Should not be released into the environment. Dispose of in accordance with local

regulations. Dispose of waste in accordance with environmental legislation. products

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as

a hazardous waste.

14. Transport information

DOT

UN1262 **UN** number or ID number

Extended proper shipping name Octanes mixture

Transport hazard class(es) 3 Packing group

Reportable Quantity (RQ) (2,2,4-Trimethylpentane: RQ (kg)= 454.00, 2,4,6-Trichlorobiphenyl: RQ (kg)= 0.454)

2,2,4-Trimethylpentane: RQ (lb)= 1000.00, 2,4,6-Trichlorobiphenyl: RQ (lb)= 1

Reportable quantity kg

(calculated)

2,2,4-Trimethylpentane: RQ (kg)= 454.00, 2,4,6-Trichlorobiphenyl: RQ (kg)= 9265.00

2,2,4-Trimethylpentane: RQ (lb)= 1000.00, 2,4,6-Trichlorobiphenyl: RQ (lb)= 20408.00

Reportable quantity lbs. (calculated)

Special Provisions

IB2, T4, TP2

DOT Marine Pollutant

2,2,4-Trimethylpentane, 2,4,6-Trichlorobiphenyl Marine pollutant

Description UN1262, Octanes mixture, 3, II, Marine pollutant (2,2,4-Trimethylpentane,

2,4,6-Trichlorobiphenyl)

Emergency Response Guide

Number

128

TDG

UN1262 **UN** number or ID number

UN proper shipping name Octanes mixture

Transport hazard class(es) 3 Packing group Ш Marine pollutant NΡ

Description UN1262, Octanes mixture, 3, II

MEX

UN number or ID number UN1262

UN proper shipping name Octanes mixture

Transport hazard class(es) 3 **Packing group**

Description UN1262, Octanes mixture, 3, II

IATA

AGHS / EN Page 10/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 μg/mL in

Revision date 16-Aug-2022

Isooctane

UN number or ID number UN1262

UN proper shipping name Octanes mixture

Transport hazard class(es)
Packing group

Description UN1262, Octanes mixture, 3, II

ERG Code 3H

IMDG

UN number or ID number UN1262

UN proper shipping name Octanes mixture

Transport hazard class(es) 3
Packing group II
EmS-No F-E, S-E

Marine pollutant P

Description UN1262, Octanes mixture, 3, II, (-9°C c.c.), Marine pollutant

15. Regulatory information

International Inventories

TSCA Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
2,2,4-Trimethylpentane	540-84-1	Present	Active

This product contains a TSCA Section 6 restricted substance(s). Please see listed references to understand requirements and obligations under TSCA. Not all products containing restricted substances will necessarily be restricted.

Chemical name	CAS No	References
2,4,6-Trichlorobiphenyl	35693-92-6	See 40 CFR Part 761

DSL/NDSL
Contact supplier for inventory compliance status.
AllC
Contact supplier for inventory compliance status.
Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

AGHS / EN Page 11/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 µg/mL in Isooctane

Revision date 16-Aug-2022

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
2,2,4-Trimethylpentane 540-84-1	1000 lb	•	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65	
2,4,6-Trichlorobiphenyl - 35693-92-6	Carcinogen	
	Developmental	

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2,2,4-Trimethylpentane 540-84-1	Х	X	Х
2,4,6-Trichlorobiphenyl 35693-92-6	X	X	Х

AGHS / EN Page 12/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 μg/mL in

Revision date 16-Aug-2022

Isooctane

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 2 Flammability 3 Instability 0 Special hazards - Halls Health hazards 2 Flammability 3 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 16-Aug-2022

Revision NoteNo information available.

Disclaimer

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We

AGHS / EN Page 13/14



This safety data sheet was created pursuant to the requirements of:

DRE-XA20003000IO - PCB No. 30 100 $\mu g/mL$ in Isooctane

Revision date 16-Aug-2022

(LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

End of Safety Data Sheet

AGHS / EN Page 14/14