

SAFETY DATA SHEET

TCI 888

SECTION 1: IDENTIFICATION OF THE SUBSTANCE

Product Identifier

Trade Name : Charislink
Product Code (s) : TCI 888

Recommended use of the chemical and restrictions on use

Recommended use : Stabilizer
Uses advised against : Consumer use

Details of the supplier of the safety data sheet

Manufacturer/Supplier : PT TRI CHARISLINK INDONESIA
Pergudangan tunas bitung blok A2 no. 7, Sukadamai,
Cikupa, Tangerang, Banten, 15810
SDS Information Contact Number : Marketing Department
Phone: -
Email: marketing@pttricharislink.com

Emergency telephone number

Company Phone Number : PT TRI CHARISLINK INDONESIA +62
NHS Direct : 111 (England and Scotland), 0845 46 47 (Wales).
NPIC : 01 809 2566

SECTION 2: HAZARDS IDENTIFICATIONS

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4	H302 Harmful if swallowed
Skin Sens. 1	H317 May cause an allergic skin reaction
Repr. 2	H361d Suspected of damaging the unborn child
STOT RE 1	H372 Causes damage to the nervous system and the immune system through prolonged or repeated exposure
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects

Label elements

Labelling according to Regulation (EC) No 1272/2008:

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms:



Appearance

Clear

Physical State

Liquid

Odor

Slight Sulphurous

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Hazard statements:

H302+H312 Harmful if swallowed or in contact with skin.
H317 May cause an allergic skin reaction.
H361d Suspected of damaging the unborn child.
H372 Causes damage to the nervous system and the immune system through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of water.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards (Results of PBT and vPvB assessment)

PBT : Not applicable.
vPvB : Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances components:

CAS REG NO	CHEMICALS	WEIGHT (%)
CAS: 57583-35-4	Methyltin Mercaptide	100

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: FIRST AID MEASURES

Description of first aid measures general information:

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

After inhalation:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in the recovery position.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes under running water. Get medical attention if irritation persists.

After swallowing:

Immediately induce vomiting; Never give anything by mouth to an unconscious person. call for medical help immediately.

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.

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SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet.

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

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.

Prevent seepage into sewage system, work pits and basements.

Methods and material for containment and cleaning up

Absorb with liquid-binding material.

Ensure adequate ventilation.

Dispose contaminated material as waste according to item 13.

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.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities

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

Information about storage in one common storage facility No No further relevant information available.

Further information about storage conditions: Store in cool, dry conditions in well-sealed receptacles.

Specific end use(s)

No further relevant information available.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls

Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing

Respiratory protection



In case of brief exposure use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands



Use protective gloves

Eye protection



Safety glasses with side-shields (EN 166)

Body protection

Protective work clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties general information

Form	: Liquid.
Color	: Clear transparent to pale yellow
Odor	: Slight Sulphurous
Odor threshold	: Not determined
pH-value	: Not determined
Melting point/Melting range	: Not determined
Boiling point/Boiling range	: 221 °C (decomposes)
Flash point	: 150 °C
Flammability (solid, gaseous)	: Not determined
Ignition temperature	: Not determined
Decomposition temperature	: Not determined
Danger of explosion	: Product does not present an explosion hazard
Explosion limits lower & upper	: Not determined
Oxidizing properties	: Not determined
Vapor pressure	: < 0.5 mm Hg
Density	: Not determined
Relative density	: 1.020 ±0.01
Vapor density	: 4.5 (air=1)
Evaporation rate	: Not determined
Solubility in / Miscibility with Water	: Insoluble
Partition coefficient (n-octanol/water)	: Not determined.
Viscosity Dynamic & Kinematic	: Not determined.
Other information	: No further relevant information available.

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SECTION 10: REACTIVITY AND STABILITY

Reactivity	No data available
Chemical stability	No decomposition if used and stored according to specification
Thermal decomposition/conditions to be avoided	No decomposition if used and stored according to specification
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 product	Organotin compounds, Tin oxides, Carbon monoxide and carbon dioxide, Sulphur oxides (SO _x)

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity

LD/LC50 values:		
57583-35-4 2-ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate		
Oral	LD50	1150-1710 mg/kg (Rat)
Dermal	LD50	>1050 mg/kg (Rabbit)
57583-34-3 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate		
Oral	LD50	880-1261 mg/kg (Rat)
Dermal	LD50	1000-2150 mg/kg (Rabbit)
7659-86-1 2-ethylhexyl mercaptoacetate		
Oral	LD50	303-334 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat) OECD 402
Inhalation	LC50	0.51 mg/L (LC0, Rat)

LD/LC50 values	Inhalative LC50 200 ppm (Rat) (4h)
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Respiratory or skin sensitization	May cause an allergic skin reaction
CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction)	Repr. 2
Germ cell mutagenicity	No information available
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP
Reproductive toxicity	No information available
STOT-single exposure	No information available
STOT-repeated exposure	No information available
Aspiration hazard	No information available

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

0.229% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganism	Crustacea
Organotin Mercaptide	270: 72 h Selenastrum capricornutum mg/L EC50 (growth rate) 120: 72 h Selenastrum capricornutum mg/L EC50 (biomass)	> 1000:96 h Pimephales promelas mg/L LC50 static		32: 48 h Daphnia magnaStraus mg/L EC50=1.03: 21 d Daphnia magnamg/L EC50= 1-10%: 21 d Daphniamagna NOEC
Alkyl tin mercaptide	> 1.8: 72 h Desmodesmo subspicatus mg/L EC50	> 6:96 h Danio rerio mg/L LC50	> 1000 mg/l	= 2.9: 24 h Daphnia magnaStraus mg/L EC50= 0.31: 21 d Daphnia magnaStraus mg/L EC50= 0.13: 21 d Daphnia magnaStraus mg/L NOEC
Mercaptan	0.41: 72 h Pseudokirchneriella subcapitata mg/L EC50 (biomass) 0.91: 72 h Pseudokirchneriella subcapitata mg/L EC50 (growth rate)	0.23 mg/L 96 h (Oncorhynchus mykiss (rainbow trout)) 9: 48 h Leuciscus idus mg/L LC50 4.4: 96 h Pimephales promelas mg/L LC50	= 2.7 mg/l	0.38: 48 h (Daphnia magna(Water flea))mg/L EC50

Toxicity

Aquatic toxicity

Persistence and degradability

Bioaccumulative potential

Mobility in soil

- : No further relevant information available.
- : No further relevant information available.
- : No further relevant information available.
- : No further relevant information available.

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Additional environmental information:

General notes

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or un-neutralized. Harmful to aquatic organisms

Results of PBT and vPvB assessment PBT : Not applicable.
vPvB : Not applicable.
Other adverse effects : No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods recommendation:

Disposal must be made according to official regulations. Do not allow product to reach sewage system.

Uncleaned packaging recommendation:

Disposal must be made according to official regulations.

Packaging that may not be cleansed must be disposed of in the same manner as the product.

SECTION 14: TRANSPORT INFORMATION

UN Number

ADR, AND : Not applicable
IMDG, IATA : UN3082

UN Proper Shipping Name

ADR, ADN : Not applicable
IMDG : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (2-ethylhexyl
10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-
oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-
4-stannatetradecanoate), MARINE
POLLUTANT
IATA : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es)

ADR, AND Class : Not applicable
IMDG, IATA Class : 9 Miscellaneous dangerous substances and
articles
IMDG, IATA Label : 9

Packing group

ADR : Not applicable
IMDG, IATA : III

Environmental hazards

Product contains environmentally hazardous substances : 2-ethylhexyl mercaptoacetate
Marine pollutant : Yes

Special precautions for user

Warning : Not applicable
EMS Number : F-A, S-F

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SECTION 15: REGULATORY INFORMATION

All of the components in the product are on the following Inventory lists.

The classification and labeling information in this Safety Data Sheet should be viewed as provisional

International Inventories

EINECS/ELINCS	Complies or Exempt
TSCA	Complies
AICS	Complies
DSL/NDSL	Complies
ENCS	Complies
KECL	Does not comply
PICCS	Complies
IECSC	Complies
NZIoC	Complies
TCSI	Complies

Legend:

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

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

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

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Any Substance regulated Title 40 of the Code of Federal Regulations, Part 372 is listed below, if it exists.

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Any Substance regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) is listed below, if it exists.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a

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guarantee for any specific product features and shall not establish a legally valid contractual relationship.

NFPA	Health hazards 2	Flammability 1	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 2*	Flammability 1	Physical hazards 0	Personal protection X

Chronic Hazard Star Legend * = Chronic Health Hazard

Relevant phrases

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction. H361d Suspected of damaging the unborn child.

H372 Causes damage to the nervous system and the immune system through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Skin Sens. 1A: Sensitisation - Skin, Hazard Category 1A Repr. 2: Reproductive toxicity, Hazard Category 2

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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