LINPLAST 812 TM

Version: 3.00 **Date of first issue: 2007/11/21**

Revision Date: 2023/03/24 **Date of last issue: 2022/05/31**

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

1.1 Product identifier

Trade name **LINPLAST 812 TM**

REACH No. 01-2119423610-53-0000

Substance name (REACH / CLP): tris(dodecyl and/or octyl) benzene-1,2,4-tricarboxylate

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

Use of the Substance/Mixture Industrial use, raw material for lubricants and lubricant additives

Uses advised against

1.3 Details of the supplier of the safety data sheet

Company

SASOL Germany GmbH
Anckelmannsplatz 1
20537 Hamburg
Germany

Telephone: +49 40 63684-1000
Telefax: +49 40 63684-3700

Information (Product safety) E-mail: msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number

+44 1235 239670	Europe
+44 1235 239671	Middle East, Africa
+1 215 207 0061	North America, South America
+65 3158 1074	Asia Pacific Region
+44 1865 407333	Global (english)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

2.3 Other hazards

The product has not been completely analysed and all of the hazards may not be known. Please use caution while handling this product.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

This product is a substance in the meaning of regulation (EC) 1907/2006.

CHEMICAL CHARACTERIZATION

1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters

component type: Active ingredient

EC-No.: 700-342-7 **Index-No.:** **CAS-No.:** 1163775-81-2
REACH No.: 01-2119423610-53-0000
Substance name (REACH / CLP): tris(dodecyl and/or octyl) benzene-1,2,4-tricarboxylate

COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES

No hazardous ingredients

For information on ingredients listed on the candidate list (Candidate List of Substances of Very High Concern for Authorisation) or in the list of substances subject to authorization (Annex XIV of Regulation (EC) No 1907/2006), see section 15.1. of this data sheet.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	If you feel unwell, seek medical advice (show the label where possible).
If inhaled	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
In case of skin contact	Wash off with soap and water. If symptoms persist, call a physician.
In case of eye contact	Rinse immediately with plenty of water and seek medical advice.
If swallowed	If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
Risks	No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, Dry powder, Foam, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Handle in accordance with good industrial hygiene and safety practice.

6.2 Environmental precautions

Environmental precautions	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Wear personal protective equipment. Avoid contact with skin and eyes.

Advice on protection against fire and explosion Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Other data Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s) This information is not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

National occupational exposure limits

Contains no substances with occupational exposure limit values.

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: tris(dodecyl and/or octyl) benzene-1,2,4-tricarboxylate			
End Use	**Exposure routes**	**Value**	**Note**
Workers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects		No hazard identified
	Inhalation, long-term exposure - systemic effects		No hazard identified
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects		No hazard identified
Consumers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	Oral, Acute/short-term exposure - systemic effects		No hazard identified

	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects		No hazard identified
	Inhalation, long-term exposure - systemic effects		No hazard identified
	Oral, long-term exposure - systemic effects		No hazard identified
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects		No hazard identified

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: tris(dodecyl and/or octyl) benzene-1,2,4-tricarboxylate		
Environmental Compartment	**Value**	**Note**
Fresh water		Not relevant / Not applicable
Marine water		Not relevant / Not applicable
intermittent release		Not relevant / Not applicable
Sewage treatment plant		Not relevant / Not applicable
Fresh water sediment		Not relevant / Not applicable
Marine sediment		Not relevant / Not applicable
Soil		Not relevant / Not applicable
food		Not relevant / Not applicable

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

Hand protection

Material: Nitrile rubber/nitrile latex
Break through time: >= 480 min
Glove thickness: 0.35 mm

Material: butyl-rubber
Break through time: >= 480 min
Glove thickness: 0.5 mm

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374,

due to the numerous outside influences (e.g. temperature).

Unsuitable material:
Natural rubber/natural latex

Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	Avoid contact with the skin and the eyes.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Physical state: liquid
	Shape: Liquid
Colour	colourless
Odour	odourless
Odour Threshold	No data available
pour point	-24 °C; ASTM D 97-66
Boiling point/boiling range	No data available
Flammability	not applicable (liquid)
Upper explosion limit	No data available
Lower explosion limit	No data available
Flash point	267 °C; 1,023 hPa; ASTM D 93
Auto-ignition temperature	391 °C; 1,019 hPa; DIN 51794
Decomposition temperature	Stable under normal conditions.
pH	No data available
Viscosity	
Viscosity, dynamic	135 mPas; 20 °C; ASTM D 7042
Solubility(ies)	
Water solubility	insoluble
Partition coefficient: n-octanol/water	No data available
Vapour pressure	< 0.001 hPa; 38 °C; ASTM D 2879-86

Relative density	No data available
Density	0.973 g/cm3; 20 °C
Relative vapour density	No data available

9.2 Other information

Explosives	Constituents do not contain chemical groups associated with explosivity.
Oxidizing properties	not expected based on structure and functional groups
Self-ignition	not auto-flammable
Evaporation rate	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note	Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Note	Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	No data available

10.4 Conditions to avoid

Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

10.5 Incompatible materials to avoid

Materials to avoid	None known.;

10.6 Hazardous decomposition products

Thermal decomposition	Stable under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Acute oral toxicity	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 423
Acute inhalation toxicity	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* No data available

Sufficient data are available from alternative routes of exposure.

Acute dermal toxicity *1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:*
LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Skin irritation *1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:*
Rabbit: No skin irritation; OECD Test Guideline 404

Serious eye damage/eye irritation

Not classified based on available information.

Eye irritation *1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:*
Rabbit: No eye irritation; OECD Test Guideline 405

Skin sensitisation / **Respiratory sensitisation**

Skin contact: Not classified based on available information.
Inhalation: Not classified based on available information.

Sensitisation *1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:*
Maximisation Test Guinea pig: Not a skin sensitizer.; OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Genotoxicity in vitro *1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:*
In vitro tests did not show mutagenic effects

Carcinogenicity

Not classified based on available information.

Carcinogenicity *1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:*
This information is not available.

Reproductive toxicity

Not classified based on available information.

Effects on fertility *1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:*

No effects on fertility and early embryonic development were detected.

Effects on foetal development *1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:*

No embryotoxic effects have been observed in animal tests.

STOT - single exposure

Not classified based on available information.

Assessment *1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:*
The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.

Assessment	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* Rat; Oral; Subchronic toxicity NOAEL: 1,000 mg/kg (based on body weight and day); OECD Test Guideline 408

Aspiration hazard

Not classified based on available information.

Aspiration toxicity	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* Not applicable

11.2 Information on other hazards

Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Toxicological information	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* The substance is expected to be rapidly absorbed and excreted. Bioaccumulation is unlikely. (literature value)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* LC50 (96 h) Gobiocypris rarus (rare gudgeon) ; static test; OECD Test Guideline 203 In the range of water solubility not toxic under test conditions.
Toxicity to fish - Chronic toxicity	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* NOEC (30 d) Danio rerio (zebra fish); mortality; OECD Test Guideline 210 In the range of water solubility not toxic under test conditions.
Toxicity to daphnia and other aquatic invertebrates	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* (48 h) Daphnia magna (Water flea) ; static test In the range of water solubility not toxic under test conditions.
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* (21 d) Daphnia magna (Water flea); reproduction rate; semi-static test; OECD Test Guideline 211 In the range of water solubility not toxic under test conditions.
Toxicity to aquatic plants	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* (72 h) Raphidocelis subcapitata (freshwater green alga) ; Growth rate; static test; In the range of water solubility not toxic under test conditions.
Toxicity to bacteria	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* EC10 (3 h) activated sludge of a predominantly domestic sewage: > 1,000 mg/l; OECD Test Guideline 209
Toxicity to soil dwelling organisms	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* LC10 (14 d) Eisenia fetida (earthworms): > 1,000 mg/kg; mortality; artificial soil
Plant toxicity	*1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:* emergence, growth; EC50 (18 d): > 100 mg/kg; Triticum aestivum (wheat),

Lepidium sativum (cress), Brassica alba (mustard); OECD Test Guideline 208

Toxicity to terrestrial organisms

1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:
The study is not necessary.
Justification:
low bioaccumulation potential

12.2 Persistence and degradability

Biodegradability

1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:
inherently biodegradable; 55 %; 28 d; aerobic; OECD Test Guideline 302C

1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:
Not rapidly biodegradable; < 60 %; 28 d; aerobic; OECD Test Guideline 301F

12.3 Bioaccumulative potential

Bioaccumulation

1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:
Bioconcentration factor (BCF): 6.36; calculated
Bioaccumulation is unlikely.

12.4 Mobility in soil

Distribution among environmental compartments

1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:
Koc: > 5000
immobile
strong adsorption to soil

12.5 Results of PBT and vPvB assessment

Results of PBT assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Results of PBT assessment

1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:
This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

Endocrine disrupting potential

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Additional ecological information

1,2,4-Benzenetricarboxylic acid, mixed dodecyl and octyl triesters:
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Can be incinerated, when in compliance with local regulations.

Waste Code

A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.
The waste code must be determined in agreement with the regional waste disposal authority or company.

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SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.2 UN proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.3 Transport hazard class(es)

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.4 Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks	No information available.

SECTION 15: REGULATORY INFORMATION

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

EU PIC: Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Not applicable

EU SVHC: REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Not applicable

EU. REACH-Annex XIV: REACH - List of substances subject to authorisation (Annex XIV)

Not applicable

EC 1005/2009: Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Not applicable

EU POP: Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

UK. REACH Annex XIV: UK REACH List of substances subject to authorisation (Annex XIV)

Not applicable

UK SVHC: UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation

Not applicable

GB POPs: The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)

Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Not applicable

Legislation on the control of major-accident hazards involving dangerous substances

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: Not applicable

Notification status

Australian Inventory of Industrial Chemicals	ZAU_AIIC	not listed (product or constituents are not listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	not listed (product or constituents are not listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	not listed (product or constituents are not listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	not listed (product or constituents are not listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	not listed (product or constituents are not listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	not listed (product or constituents are not listed)
Taiwan Chemical Substance Inventory (TCSI)	ZTW_INV	not listed (product or constituents are not listed)
United States TSCA Inventory	TSCA	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

Safety datasheet sections which have been updated:

1. Identification of the substance/mixture and of the company/undertaking
2. Hazards identification
3. Composition/information on ingredients
4. First aid measures
8. Exposure controls/personal protection
9. Physical and chemical properties
11. Toxicological information
12. Ecological information
15. Regulatory information

Further information: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any

other materials or in any process, unless specified in the text.
This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC…	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC…	Lethal Concentration, ...%
LD…	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse

Annex

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

tris(dodecyl and/or octyl) benzene-1,2,4-tricarboxylate

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000013413_EN_01.pdf