

Safety data sheet

Page: 1/22

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

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

1.1. Product identifier

Irganox® 1520 L

Chemical name: 4,6-bis(octylthiomethyl)-o-cresol

CAS Number: 110553-27-0

REACH registration number: 01-0000015259-66-0003, 01-0000015259-66-0009

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

1.3. Details of the supplier of the safety data sheet

Company:

BTC Europe GmbH
Rheinpromenade 1
40789 Monheim, Germany

Contact address:

BTC Europe GmbH
Rheinpromenade 1
40789 Monheim, Germany
Branch:
BTC Europe GmbH
Industriestr. 20
91593 Burgbernheim

Telephone: +49 2173 3347-0

E-mail address: btc-productsafety@btc-europe.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

| No need for classification according to GHS criteria for this product.

2.2. Label elements

| Globally Harmonized System, EU (GHS)

| The product does not require a hazard warning label in accordance with GHS criteria.

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

Phenol, 2-methyl-4,6-bis[(octylthio)methyl]- (9CI)
CAS Number: 110553-27-0
EC-Number: 402-860-6

3.2. Mixtures

Not applicable

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

On skin contact:
Wash thoroughly with soap and water.

On contact with eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:
Rinse mouth and then drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Further important symptoms and effects are so far not known.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:
water jet

5.2. Special hazards arising from the substance or mixture

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Storage stability:

Storage temperature: 10 - 50 °C

Protect from temperatures below: 10 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 50 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

No occupational exposure limits known.

DNEL

worker:

Long-term exposure- systemic effects, Inhalation: 1.8 mg/m³

worker:

Long-term exposure- systemic effects, dermal: 0.71 mg/kg

consumer:

Long-term exposure- systemic effects, dermal: 0.36 mg/kg

consumer:

Long-term exposure- systemic effects, oral: 0.36 mg/kg

consumer:

Long-term exposure- systemic effects, Inhalation: 0.43 mg/m³

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374)

butyl rubber (butyl) - 0.7 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

For information regarding environmental exposure controls, see Section 6.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid	
Colour:	yellowish	
Odour:	mild	
Odour threshold:	No applicable information available.	
pH value:	6.4 (1 %(m), 20 - 25 °C)	
Melting point:	approx. 14 °C	(Directive 92/69/EEC, A.1)
Boiling point:	178 °C (11 Pa) The substance / product decomposes.	(OECD Guideline 103)
Flash point:	> 200 °C	(DIN 51758, closed cup)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability:	Based on the chemical structure there is no indication of flammability	
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	330 °C	(Directive 84/449/EEC, A.15)
Vapour pressure:	< 0.00002 Pa (25 °C) Extrapolated value	(OECD Guideline 104)
Density:	0.9808 g/cm ³ (20 °C)	(Directive 84/449/EEC, A.3)
Relative density:	0.9808	(Directive 84/449/EEC, A.3)
Solubility in water:	< 0.02 mg/l (20 °C)	(Directive 84/449/EEC, A.6)
Solubility (quantitative) solvent(s):	standard fat > 1,000 g/kg (37 °C)	
Partitioning coefficient n-octanol/water (log Kow):	10.5	(Calculation Hansch/Leo)
Self ignition:	Temperature: 330 °C	(Method: Directive 84/449/EEC, A.15)

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

Thermal decomposition:	> 350 °C	
Viscosity, dynamic:	87 mPa.s	(OECD 114)
	(20 °C, 109 1/s)	
Explosion hazard:	not explosive	(Directive 84/449/EEC, A.14)
Fire promoting properties:	not fire-propagating	

9.2. Other information

Self heating ability: It is not a substance capable of spontaneous heating.

Minimum ignition energy: No data available.

Radioactivity: not radioactive for transport purposes

pKA: not applicable

Hygroscopy: not applicable

Adsorption/water - soil: KOC: > 109 (OECD Guideline 106)

Surface tension: 41.9 - 47.5 mN/m (Directive 84/449/EEC, A.5, Plate method)

(20 °C; 1 %(V)) (calculated)

Molar mass: 424.76 g/mol

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:	No corrosive effect on metal.	
Reactions with water/air:	Reaction with:	water
	Flammable gases:	no
	Toxic gases:	no
	Corrosive gases:	no
	Smoke or fog:	no
	Peroxides:	no
	Reaction with:	air
	Flammable gases:	no
	Toxic gases:	no
	Corrosive gases:	no
	Smoke or fog:	no
	Peroxides:	no

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

Formation of flammable gases:

Remarks:

Forms no flammable gases in the presence of water.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Peroxides:

0 %

The product does not contain peroxides.

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

10.4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static discharge.

10.5. Incompatible materials

Substances to avoid:

strong oxidizing agents, strong acids, strong bases

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion.

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 401)

(by inhalation):not determined

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Animal studies do not fully exclude a skin sensitizing potential.

Experimental/calculated data:

guinea pig: Non-sensitizing. (OECD Guideline 406)

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in studies with mammals.

Carcinogenicity

Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statement has been derived from the properties of the individual components.

Aspiration hazard

not applicable

SECTION 12: Ecological Information

12.1. Toxicity

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. No toxic effects occur within the range of solubility. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 92/69/EEC, C.1, static)
The LC50 is higher than the solubility limit. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. No effects at the highest test concentration. Nominal concentration.

Aquatic invertebrates:

Study scientifically not justified.

Aquatic plants:

EC50 (72 h) > 100 mg/l (growth rate), *Scenedesmus subspicatus* (OECD Guideline 201, static)
The product has low solubility in the test medium. A saturated solution has been tested. Nominal concentration. No effects at the highest test concentration.

Microorganisms/Effect on activated sludge:

EC20 (3 h) > 100 mg/l, activated sludge, domestic (OECD Guideline 209, aquatic)
Nominal concentration.

Chronic toxicity to fish:

Study scientifically not justified.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) > 0.0088 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)
No toxic effects occur within the range of solubility. The statement of the toxic effect relates to the analytically determined concentration. The value meets the highest applied test concentration.

Assessment of terrestrial toxicity:

No toxic effects have been observed in studies with soil living organisms.

Soil living organisms:

LC50 > 1,000 mg/kg, *Eisenia foetida* (OECD Guideline 207, artificial soil)
The details of the toxic effect relate to the nominal concentration.

Terrestrial plants:

No data available.

Other terrestrial non-mammals:

No data available.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

Elimination information:

3 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge)

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Does not significantly accumulate in organisms.

Bioaccumulation potential:

Bioconcentration factor: 52 - 89 (56 d), Brachydanio rerio (OECD Guideline 305 E)

Does not significantly accumulate in organisms.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is expected.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

Contaminated packaging:
Uncontaminated packaging can be re-used.
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14: Transport Information

Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Inland waterway transport

ADN

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Transport in inland waterway vessel

Not evaluated

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006

Restrictions of Regulation (EC) No 1907/2006, Annex XVII, do not apply for the intended use(s) of the product given in this MSDS.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

15.2. Chemical Safety Assessment

Chemical Safety Assessment not yet performed due to registration timelines

SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: btc-productsafety@btc-europe.com

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

Vertical lines in the left hand margin indicate an amendment from the previous version.

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

Annex: Exposure Scenarios

Index

1. Manufacture of substance

SU3; ERC1; PROC1, PROC3, PROC8a, PROC9

2.

SU3; SU3; ERC1; PROC3, PROC8a, PROC9

3. Formulation

SU3, SU10; ERC3; PROC8a, PROC8b, PROC9, PROC14

4.

SU3; SU3, SU10; ERC2, ERC3; PROC5, PROC8a, PROC9, PROC14

5. Feeding and mixing of additives for production of masterbatches and compounds

SU3, SU10; ERC3; PROC4, PROC5, PROC8a, PROC8b, PROC9

6. Industrial use of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics, Production

SU3; SU3; ERC5; PROC7, PROC8a, PROC21, PROC24

7. Industrial use of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics

SU3; SU3; ERC5; PROC8a, PROC10, PROC21, PROC24

8. Use in the production of masterbatches

SU3, SU10, SU12; ERC5; PROC14; PC32

9.

SU3; SU3; ERC5; PROC6, PROC8a, PROC9, PROC13, PROC14, PROC21, PROC24

10. Use in the production of compounds

SU3, SU10, SU12; ERC5; PROC14; PC32

11.

SU3; SU3; ERC3; PROC8a, PROC6

12. Direct use of additives at converter's facilities in closed process

SU3, SU10, SU12; ERC5; PROC14; PC32; AC13

13.

SU3; SU3; ERC3; PROC8a, PROC14, PROC9, PROC5

14. Direct use of additives at converter's facilities in open process

SU3, SU10, SU12; ERC5; PROC6; PC32; AC13

15. Use in the polymerization or polycondensation process

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

SU3, SU10, SU12; ERC5; PROC4; PC32

16.

SU3; SU3; ERC3, ERC5; PROC21, PROC24

17.Wide dispersive indoor use (professional) of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics

SU22; SU22; ERC8c; PROC8a, PROC11, PROC21, PROC24

18.Feeding and mixing of masterbatches for conversion

SU3, SU10, SU12; ERC5; PROC4, PROC5, PROC8a, PROC8b, PROC9; PC32

19.Wide dispersive indoor use (professional) of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics

SU22; SU22; ERC8c; PROC8a, PROC10, PROC21, PROC24

20.Use of masterbatches or compounds in closed and semi-closed process

SU3, SU10, SU12; ERC5; PROC14; PC32; AC13

21.Wide dispersive outdoor use (professional) of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics

SU22; SU22; ERC8f; PROC8a, PROC11, PROC21, PROC24

22.Use of masterbatches or compounds in open process

SU3, SU10, SU12; ERC5; PROC6, PROC14; PC32; AC13

23.Wide dispersive outdoor use (professional) of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics

SU22; SU22; ERC8f; PROC8a, PROC10, PROC21, PROC24

24.Use of masterbatches or compounds in spreadcoating or dip coating

SU3, SU10, SU12; ERC5; PROC10, PROC13, PROC14; PC32

25.Wide dispersive outdoor use of long-life articles and materials with low release, including coatings, adhesives and plastics

SU21; ERC10a, ERC11a; PC1, PC9a, PC32

26.Use of masterbatches or compounds in foam production

SU3, SU10, SU12; ERC5; PROC13, PROC14; PC32; AC13

27.Feeding and mixing of plastic compounds for conversion

SU3, SU10, SU12; ERC5; PROC4, PROC5, PROC8a, PROC8b, PROC9; PC32

28.Use of coating formulations in roll coating or dip coating

SU3, SU10, SU12; ERC5; PROC10, PROC13; PC32

29.Use of plastic articles or compounds for machining, granulating, screening, and grinding of scraps for recycling

SU3, SU10, SU12; ERC5; PROC21, PROC24; PC32; AC13

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

30. Indoor use of plastic articles by consumers
SU21, SU22; ERC11a; PC32; AC13

31. Outdoor use of plastic articles by consumers
SU21, SU22; ERC10a; PC32; AC13

1. Short title of exposure scenario

Manufacture of substance
SU3; ERC1; PROC1, PROC3, PROC8a, PROC9

2. Short title of exposure scenario

SU3; SU3; ERC1; PROC3, PROC8a, PROC9

3. Short title of exposure scenario

Formulation
SU3, SU10; ERC3; PROC8a, PROC8b, PROC9, PROC14

4. Short title of exposure scenario

SU3; SU3, SU10; ERC2, ERC3; PROC5, PROC8a, PROC9, PROC14

5. Short title of exposure scenario

Feeding and mixing of additives for production of masterbatches and compounds
SU3, SU10; ERC3; PROC4, PROC5, PROC8a, PROC8b, PROC9

6. Short title of exposure scenario

Industrial use of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics, Production
SU3; SU3; ERC5; PROC7, PROC8a, PROC21, PROC24

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

Version: 5.0

Product: **Irganox® 1520 L**

(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

7. Short title of exposure scenario

Industrial use of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics

SU3; SU3; ERC5; PROC8a, PROC10, PROC21, PROC24

8. Short title of exposure scenario

Use in the production of masterbatches

SU3, SU10, SU12; ERC5; PROC14; PC32

9. Short title of exposure scenario

SU3; SU3; ERC5; PROC6, PROC8a, PROC9, PROC13, PROC14, PROC21, PROC24

10. Short title of exposure scenario

Use in the production of compounds

SU3, SU10, SU12; ERC5; PROC14; PC32

11. Short title of exposure scenario

SU3; SU3; ERC3; PROC8a, PROC6

12. Short title of exposure scenario

Direct use of additives at converter's facilities in closed process

SU3, SU10, SU12; ERC5; PROC14; PC32; AC13

13. Short title of exposure scenario

SU3; SU3; ERC3; PROC8a, PROC14, PROC9, PROC5

14. Short title of exposure scenario

BTC Europe Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 11.09.2017

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(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

Direct use of additives at converter's facilities in open process
SU3, SU10, SU12; ERC5; PROC6; PC32; AC13

15. Short title of exposure scenario

Use in the polymerization or polycondensation process
SU3, SU10, SU12; ERC5; PROC4; PC32

16. Short title of exposure scenario

SU3; SU3; ERC3, ERC5; PROC21, PROC24

17. Short title of exposure scenario

Wide dispersive indoor use (professional) of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics
SU22; SU22; ERC8c; PROC8a, PROC11, PROC21, PROC24

18. Short title of exposure scenario

Feeding and mixing of masterbatches for conversion
SU3, SU10, SU12; ERC5; PROC4, PROC5, PROC8a, PROC8b, PROC9; PC32

19. Short title of exposure scenario

Wide dispersive indoor use (professional) of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics
SU22; SU22; ERC8c; PROC8a, PROC10, PROC21, PROC24

20. Short title of exposure scenario

Use of masterbatches or compounds in closed and semi-closed process
SU3, SU10, SU12; ERC5; PROC14; PC32; AC13

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(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

21. Short title of exposure scenario

Wide dispersive outdoor use (professional) of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics
SU22; SU22; ERC8f; PROC8a, PROC11, PROC21, PROC24

22. Short title of exposure scenario

Use of masterbatches or compounds in open process
SU3, SU10, SU12; ERC5; PROC6, PROC14; PC32; AC13

23. Short title of exposure scenario

Wide dispersive outdoor use (professional) of additive resulting in inclusion into a matrix, including application in coatings, adhesives and plastics
SU22; SU22; ERC8f; PROC8a, PROC10, PROC21, PROC24

24. Short title of exposure scenario

Use of masterbatches or compounds in spreadcoating or dip coating
SU3, SU10, SU12; ERC5; PROC10, PROC13, PROC14; PC32

25. Short title of exposure scenario

Wide dispersive outdoor use of long-life articles and materials with low release, including coatings, adhesives and plastics
SU21; ERC10a, ERC11a; PC1, PC9a, PC32

26. Short title of exposure scenario

Use of masterbatches or compounds in foam production
SU3, SU10, SU12; ERC5; PROC13, PROC14; PC32; AC13

27. Short title of exposure scenario

Feeding and mixing of plastic compounds for conversion
SU3, SU10, SU12; ERC5; PROC4, PROC5, PROC8a, PROC8b, PROC9; PC32

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(ID no. 10897189/SDS_GEN_GB/EN)

Date of print 02.07.2021

28. Short title of exposure scenario

Use of coating formulations in roll coating or dip coating
SU3, SU10, SU12; ERC5; PROC10, PROC13; PC32

29. Short title of exposure scenario

Use of plastic articles or compounds for machining, granulating, screening, and grinding of scraps for recycling
SU3, SU10, SU12; ERC5; PROC21, PROC24; PC32; AC13

30. Short title of exposure scenario

Indoor use of plastic articles by consumers
SU21, SU22; ERC11a; PC32; AC13

31. Short title of exposure scenario

Outdoor use of plastic articles by consumers
SU21, SU22; ERC10a; PC32; AC13
