

Safety Data Sheet

according to Regulation (EU) 2015/830

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

1.1. Product identifier

Product form : Substance

Chemical Substance Name : Poly(dicyclopentadiene-co-p-cresol)

Substance name : Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene

Trade name : antioxidant ky616
Registration number : 01-2119496062-39_*****

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

1.2.1. Relevant identified uses

Use of the substance/mixture : For more detail information, please refer to Annex

1.2.2. Uses advised against

Restrictions on use : No information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity, Category 2 H361

Hazardous to the aquatic environment — Chronic Hazard, Category 4 H413

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Warning

Hazard statements (CLP) : H361 - Suspected of damaging fertility or the unborn child.

H413 - May cause long lasting harmful effects to aquatic life.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

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

P273 - Avoid release to the environment.

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

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

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
	(CAS-No.) 68610-51-5 (EC-No.) 271-867-2	100	Repr. 2, H361 Aquatic Chronic 4, H413

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable



Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 4: First aid measures

4.1. Description of first aid measures

: IF exposed or concerned: Get medical advice/attention. First-aid measures general

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a

physician.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. If symptoms persist

call a doctor.

: Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell. First-aid measures after ingestion

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

: Suspected of damaging fertility or the unborn child. Symptoms/effects

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide (CO2).

Unsuitable extinguishing media : Water

5.2. Special hazards arising from the substance or mixture

Fire hazard : Thermal decomposition may produce : Carbon oxides (CO, CO2). Combustible dusts.

Explosion hazard : Can form explosive mixtures with air.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

: Do not attempt to take action without suitable protective equipment. Self-contained Protection during firefighting

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust. Remove all sources of ignition. Avoid contact

with skin and eyes.

6.1.2. For emergency responders

: Do not attempt to take action without suitable protective equipment. For further information Protective equipment

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Avoid creating or spreading dust.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Notify authorities if product enters sewers or public waters. Sweep or shovel spills into

appropriate container for disposal.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid creating or spreading dust. Remove all sources of ignition. Take precautionary measures against static discharge. Keep container tightly closed.

: Do not eat, drink or smoke when using this product. Always wash hands after handling the Hygiene measures

7.2. Conditions for safe storage, including any incompatibilities

: Store locked up. Store in a well-ventilated place. Keep cool. Storage conditions

7.3. Specific end use(s)

No information available.

6/22/2018 (Version: 1.0) EN (English)



Safety Data Sheet according to Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection

8.1. Control parameters		
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene		
DNEL/DMEL (Workers)		
Long-term - local effects, dermal	0.42 mg/kg bw/day	
Long-term - systemic effects, inhalation	0.29 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.04 mg/kg bw/day	
Long-term - systemic effects, inhalation	0.07 mg/m³	
Long-term - systemic effects, dermal	0.21 mg/kg bw/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.01 mg/l	
PNEC aqua (marine water)	0.002 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	426.26 mg/kg dwt	
PNEC sediment (marine water)	85.25 mg/kg dwt	
PNEC (Soil)		
PNEC soil	85.16 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	1.7 mg/kg food	
PNEC (STP)		

100 mg/l

PNEC sewage treatment plant 8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand	protection:
Hallu	protection.

Protective gloves. PVC gloves. Plastic materials

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : Off-white

Odour : No data available. Odour threshold : No data available рΗ : No data available pH solution : No data available Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available Melting point : 118 °C at 101.3 kPa Freezing point : No data available



Safety Data Sheet

according to Regulation (EU) 2015/830

Boiling point : 320 °C at 101.3 kPa Flash point : No data available : No data available Critical temperature Auto-ignition temperature : No data available Decomposition temperature : No data available : Not flammable Flammability (solid, gas) Vapour pressure : 0 Pa at 25°C Critical pressure : No data available : No data available Relative vapour density at 20 °C Relative density : 1.074 at 20°C Relative density of saturated gas/air mixture : No data available : No data available Density Relative gas density : No data available Solubility : Water: 0.01 mg/l

Log Pow : 7.93

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Product is not explosive.
Oxidising properties : Non oxidizing.

Explosive limits : No data available
Lower explosive limit (LEL) : No data available
Upper explosive limit (UEL) : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene (68610-51-5)		
LD50 oral rat	5000mg/kg bw	
LD50 dermal rabbit	2000mg/kg bw	
LC50 inhalation rat (mg/l)	no study available	

Skin corrosion/irritation : Not classified

pH: No data available

no adverse effect observed (not irritating)

Serious eye damage/irritation : Not classified

pH: No data available

no adverse effect observed (not irritating)



Safety Data Sheet

according to Regulation (EU) 2015/830

Respiratory or skin sensitisation

: Not classified

Skin sensitisation: no adverse effect observed (not sensitising)

Respiratory sensitisation : no study available

Germ cell mutagenicity

: Not classified

(genetic toxicity in vitro): Genetic toxicity: no adverse effect observed (negative)

(genetic toxicity in vivo): Genetic toxicity: no study available

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long lasting harmful effects to aquatic life.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene (68610-51-5)		
LC50 for freshwater fish	0.2 mg/l	
EC10/LC10 or NOEC for freshwater fish	1mg/L	
EC50/LC50 for freshwater invertebrates	0.2mg/L	
EC10/LC10 or NOEC for freshwater invertebrates	1mg/L	
EC50/LC50 for freshwater algae	0.2mg/L	
EC10/LC10 or NOEC for freshwater algae	0.2mg/L	
EC50/LC50 for aquatic micro-organisms	150.9mg/L	
EC10/LC10 or NOEC for aquatic micro-organisms	150.9mg/L	

12.2. Persistence and degradability

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene

Persistence and degradability

The substance is not readily biodegradable nor inherently biodegradable.

12.3. Bioaccumulative potential

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	
Log Pow	7.93
Log Kow	No data available
BCF	100L/kg ww
Bioaccumulative potential	The substance has limited bioaccumulation potential.

12.4. Mobility in soil

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene

Ecology - soil No information available.

12.5. Results of PBT and vPvB assessment

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN



Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
44.0 Operated appropriation				

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene is not on the REACH Candidate List Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene is not on the REACH Annex XIV List

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : ECHA reference.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:		
H361	Suspected of damaging fertility or the unborn child.	
H413	May cause long lasting harmful effects to aquatic life.	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product