

Product name: KOSMOS 16

SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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

1.1 Product identifier

Product name:
KOSMOS 16

Chemical name:
Acetic acid, 2,2'-[(dioctylstannylene)bis(thio)]bis-, 1,1'-diisooctyl ester

Additional identification

Chemical name:	Diisooctyl 2,2'-[(dioctylstannylene)bis(thio)]diacetate
Chemical formula:	-
INDEX No.	-
CAS-No.	26401-97-8
EC No.	247-666-0
REACH Registration No.:	01-2120770119-52

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

Identified uses: Industrial use

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Company Name	: Evonik Operations GmbH Rellinghauser Str. 1-11 45128 Essen Germany
Telephone	: +49 201 173 01
Fax	: +49 201 173 3000
E-mail	: productsafety-sp@evonik.com

1.4 Emergency telephone number:

24-Hour Health Emergency	: +49 2365 49 2232 +49 2365 49 4423 (Fax)
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National Poison Information Service (NPIS)
England, Scotland and Wales: NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Product name: KOSMOS 16

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567
Health Hazards

Acute toxicity (Oral)	Category 4	H302: Harmful if swallowed.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.

Environmental Hazards

Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.
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2.2 Label Elements

Signal Words: Warning

Hazard Statement(s):
 H302: Harmful if swallowed.
 H317: May cause an allergic skin reaction.
 H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements
Prevention:

 P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264: Wash face, hands and any exposed skin thoroughly after handling.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

 P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P330: Rinse mouth.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.

Disposal:

P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Unknown toxicity - Health

Acute toxicity, oral	0 %
Acute toxicity, dermal	0 %
Acute toxicity, inhalation, vapor	0 %
Acute toxicity, inhalation, dust or mist	0 %

Unknown toxicity - Environment

Acute hazards to the aquatic environment	0 %
Chronic hazards to the aquatic environment	0 %

Product name: KOSMOS 16
2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients
Chemical name:

Acetic acid, 2,2'-[(dioctylstannylene)bis(thio)]bis-, 1,1'-diisooctyl ester

3.1 Substances
Chemical name: Diisooctyl 2,2'-[(dioctylstannylene)bis(thio)]diacetate

INDEX No.:
CAS-No.: 26401-97-8

EC No.: 247-666-0

REACH Registration No.: 01-2120770119-52

Chemical name	Concentration	CAS-No.	EC No.	UK-REACH Registration No.	REACH Registration No.	M-Factor:	Notes
Diisooctyl 2,2'-[(dioctylstannylene)bis(thio)]diacetate	50 - <100%	26401-97-8	247-666-0		01-2120770119-52	No data available.	#
Isooctyl mercaptoacetate	1 - <5%	25103-09-7	246-613-9		01-2119446667-27	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Diisooctyl 2,2'-[(dioctylstannylene)bis(thio)]diacetate	Classification: None known. Supplemental label information: None known.	None.
Isooctyl mercaptoacetate	Classification: None known. Supplemental label information: None known.	None.

SECTION 4: First aid measures
4.1 Description of first aid measures
General information:

Remove contaminated clothing immediately and store/dispose of safely

Inhalation:

If inhaled remove from side of exposure to fresh air, seek medical advice.

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Skin Contact:	In case of contact with skin wash off with soap and water. Take for medical treatment
Eye contact:	In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.
Ingestion:	Thoroughly clean the mouth with water Call for medical advice, show the container or the label.
Personal Protection for First-aid Responders:	No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	No special hints.
Hazards:	No data available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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SECTION 5: Firefighting measures

General Fire Hazards:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
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5.1 Extinguishing media

Suitable extinguishing media:	foam, carbon dioxide, dry powder, water spray.
Unsuitable extinguishing media:	High volume water jet.

5.2 Special hazards arising from the substance or mixture:

In the event of fire the following can be released: - carbon dioxide, carbon monoxide - Tin oxide - Sulphur dioxide (SO₂) Under certain conditions of combustion traces of other toxic substances cannot be excluded

5.3 Advice for firefighters

Special fire fighting procedures:	No specific precautions.
Special protective equipment for firefighters:	Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Ensure adequate ventilation.
6.1.1 For non-emergency personnel:	No data available.
6.1.2 For emergency responders:	No data available.
6.2 Environmental Precautions:	Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

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- 6.3 Methods and material for containment and cleaning up:** Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.
- 6.4 Reference to other sections:** For further information on exposure monitoring and disposal see sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Technical measures:** No data available.
- Local/Total ventilation:** No data available.
- Safe handling advice:** Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary).
- Contact avoidance measures:** No data available.

7.2 Conditions for safe storage, including any incompatibilities

- Safe storage conditions:** Keep container tightly closed and in a well-ventilated place.
- Safe packaging materials:** No data available.

- 7.3 Specific end use(s):** No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values	Source
Diisooctyl 2,2'-[[diocetylstannylene]bis(thio)]diacetate	STEL 15 minutes	as Sn	0.2 mg/m ³	EH40 WEL (01 2020)
	TWA	as Sn	0.1 mg/m ³	EH40 WEL (12 2011)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Diisooctyl 2,2'-[[diocetylstannylene]bis(thio)]diacetate	General population	Eyes	Local effect;	No hazard identified
	Workers	Dermal	Systemic, long-term; 83 mg/kg	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Systemic, long-term; 0.02 mg/m ³	Repeated dose toxicity

PNEC-Values

Remarks: PNEC-Values

Product name: KOSMOS 16

Critical component	Environmental compartment	PNEC-Values	Remarks
Diisooctyl 2,2'-[[dioctylstannylene]bis(thio)]diacetate	Sediment (marine water)	244000 mg/kg	
	Soil	91700000 g/kg	
	Aquatic (freshwater)	0.024 mg/l	
	Sewage treatment plant	1 mg/l	
	Sediment (freshwater)	2440000 mg/kg	
Isooctyl mercaptoacetate	Aquatic (marine water)	0.002 mg/l	
	Sewage treatment plant	10 mg/l	
	Aquatic (marine water)	0 mg/l	
	Soil	0.005 mg/kg	
	Sediment (marine water)	0.002 mg/kg	
	Aquatic (freshwater)	0 mg/l	
	Sediment (freshwater)	0.015 mg/kg	

8.2 Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses

Hand Protection: Additional Information: The protective gloves to be worn must satisfy the specifications of Regulation (EU) 2016/425 and the resulting Standard EN374., Specific workplace situations must be considered separately.

Skin and Body Protection: protective clothing

Respiratory Protection: in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

Hygiene measures: When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.

Environmental Controls: The environmental regulations on the control and monitoring of environmental exposures are to be observed.

SECTION 9: Physical and chemical properties
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9.1 Information on basic physical and chemical properties
Appearance

Physical state: liquid

Form: liquid

Color: Yellow

Odor: Characteristic

Odor Threshold: not measured

Freezing point: <
-21 °C

Boiling Point: >
250 °C

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not measured

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Explosive limit - lower:	not measured
Flash Point:	168 °C
Auto-ignition temperature:	314 °C
Decomposition Temperature:	not measured
pH:	Not determined.
Viscosity	
Dynamic viscosity:	Not determined.
Kinematic viscosity:	not measured
Solubility(ies)	
Solubility in Water:	immiscible
Solubility (other):	Marginally Soluble
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	< 0.000001 hPa
Relative density:	No data available.
Density:	1.05 g/cm ³ at 20 °C
Relative vapor density:	not measured

9.2 Other information

Explosive properties:	no danger of explosion
Oxidizing properties:	not measured
Self-ignition:	not measured
Metal Corrosion:	not measured
Evaporation Rate:	not measured
VOC Content:	EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17 0 % Method: calculated EC Directive 2004/42 25 g/l 2.5 % Method: calculated

SECTION 10: Stability and reactivity

10.1 Reactivity:	see section "Possibility of hazardous reactions".
10.2 Chemical Stability:	The product is stable under normal conditions.
10.3 Possibility of hazardous reactions:	No hazardous reactions with proper storage and handling
10.4 Conditions to avoid:	None known.
10.5 Incompatible Materials:	Unknown
10.6 Hazardous Decomposition Products:	Carbon Dioxide. Carbon Monoxide. Oxides of Sulfur.

Product name: KOSMOS 16

SECTION 11: Toxicological information
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Information on likely routes of exposure

Inhalation:	If handled correctly, not a relevant route of exposure. Information on effects are given below.
Skin Contact:	Relevant route of exposure. Information on effects are given below.
Eye contact:	Relevant route of exposure. Information on effects are given below.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

Acute toxicity (list all possible routes of exposure)
Oral

Product:	No data available. ATEmix, 1,567.24 mg/kg
Components:	
Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate	LD 50, Rat, Female, Male, 1,800 mg/kg
Isooctyl mercaptoacetate	LD 50, Rat, Male, 303 mg/kg, (analogy) LD 50, Rat, Female, 334 mg/kg, (analogy)

Dermal

Product:	No data available. Not classified for acute toxicity based on available data.
Components:	
Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate	LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 402
Isooctyl mercaptoacetate	LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 402

Inhalation

Product:	No data available. Not classified for acute toxicity based on available data.
Components:	
Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate	Not toxic after single exposure, Vapour, No data available. Not toxic after single exposure, Dust and mist, No data available.
Isooctyl mercaptoacetate	Not toxic after single exposure, Vapour, No data available. Not toxic after single exposure, Dust and mist, No data available.

Repeated dose toxicity

Product:	No data available.
Components:	
Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate	No data available.
Isooctyl mercaptoacetate	No data available.

Skin Corrosion/Irritation

Product:	Based on available data, the classification criteria are not met.
Components:	

Product name: KOSMOS 16

Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate Isooctyl mercaptoacetate	Not irritating, OECD 404, Rabbit Not irritating, OECD 404, Rabbit
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Serious Eye Damage/Eye Irritation

Product: Based on available data, the classification criteria are not met.

Components:

Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate Isooctyl mercaptoacetate	Not irritating, OECD 405, Rabbit Not irritating, OECD 405, Rabbit
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Respiratory or Skin Sensitization

Product: Skin sensitizer

Components:

Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate Isooctyl mercaptoacetate	Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer. Maximization Test, OECD 406, Guinea Pig, May cause sensitization by skin contact., (analogy)
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Carcinogenicity

Product: No data available.

Components:

Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate Isooctyl mercaptoacetate	No data available. No data available. No data available.
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Germ Cell Mutagenicity

No data available.

In vitro

Product: No data available.

Components:

Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate Isooctyl mercaptoacetate	No data available. No data available. No data available.
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In vivo

Product: No data available.

Components:

Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate Isooctyl mercaptoacetate	No data available. No data available. No data available.
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Reproductive toxicity

Product: No data available.

Components:

Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate Isooctyl mercaptoacetate	No data available. No data available. No data available.
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Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Components:

Product name: KOSMOS 16

Diisooctyl 2,2'-
 [(dioctylstannylene)bis(thi
 o)]diacetate No data available.
 Isooctyl mercaptoacetate No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: Oral, thymus, Causes damage to organs through prolonged or repeated exposure.

Components:

Diisooctyl 2,2'-
 [(dioctylstannylene)bis(thi
 o)]diacetate Oral, thymus, Category 1, Causes damage to organs through prolonged or repeated exposure.
 Isooctyl mercaptoacetate No data available.

Aspiration Hazard

Product: Not classified

Components:

Diisooctyl 2,2'-
 [(dioctylstannylene)bis(thi
 o)]diacetate Not classified
 Isooctyl mercaptoacetate Not classified

11.2 Information on other hazards
Other information

Product: Harmful if swallowed. May cause an allergic skin reaction. Danger of serious damage to health by prolonged exposure.;

SECTION 12: Ecological information

12.1 Toxicity:
Acute hazards to the aquatic environment:
Fish

Product: No data available.

Components:

Diisooctyl 2,2'-
 [(dioctylstannylene)bis(thi
 o)]diacetate EC 50, Danio rerio, 96 h, 24.8 mg/l OECD 203
 NOEC, Danio rerio, 96 h, > 24.8 mg/l OECD 203
 Isooctyl mercaptoacetate No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Diisooctyl 2,2'-
 [(dioctylstannylene)bis(thi
 o)]diacetate EC 50, Daphnia magna, 48 h, 24.12 mg/l OECD 202
 Isooctyl mercaptoacetate EC 50, Daphnia magna, 48 h, 0.39 mg/l OECD 202

Toxicity to Aquatic Plants

Product: No data available.

Components:

Diisooctyl 2,2'-
 [(dioctylstannylene)bis(thi
 o)]diacetate EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l (OECD 201)

Product name: KOSMOS 16

o)]diacetate
 Isooctyl mercaptoacetate EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 0.41 mg/l (OECD 201) (analogy)
 EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 0.91 mg/l (OECD 201) (analogy)

Toxicity to microorganisms

Product: No data available.
Components:
 Diisooctyl 2,2'- [(dioctylstannylene)bis(thio)]diacetate No data available.
 Isooctyl mercaptoacetate EC 50, activated sludge, 3 h, > 100 mg/l, OECD 209, (analogy)

Toxicity to soil dwelling organisms

Product: No data available.
Components:
 Diisooctyl 2,2'- [(dioctylstannylene)bis(thio)]diacetate No data available.
 Isooctyl mercaptoacetate No data available.

Toxicity to terrestrial organisms

Product: No data available.
Components:
 Diisooctyl 2,2'- [(dioctylstannylene)bis(thio)]diacetate No data available.
 Isooctyl mercaptoacetate No data available.

Chronic hazards to the aquatic environment:
Fish

Product: No data available.
Components:
 Diisooctyl 2,2'- [(dioctylstannylene)bis(thio)]diacetate No data available.
 Isooctyl mercaptoacetate No data available.

Aquatic Invertebrates

Product: No data available.
Components:
 Diisooctyl 2,2'- [(dioctylstannylene)bis(thio)]diacetate No data available.
 Isooctyl mercaptoacetate No data available.

Toxicity to Aquatic Plants

Product: No data available.
Components:
 Diisooctyl 2,2'- [(dioctylstannylene)bis(thio)]diacetate No data available.
 Isooctyl mercaptoacetate NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 0.5 mg/l (OECD 201) (analogy)
 NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 0.5 mg/l (OECD 201) (analogy)

Product name: KOSMOS 16

Toxicity to microorganisms

Product:	No data available.
Components:	
Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate	No data available.
Isooctyl mercaptoacetate	EC 50, activated sludge, 3 h, > 100 mg/l, OECD 209, (analogy)

Toxicity to soil dwelling organisms

Product:	No data available.
Components:	
Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate	No data available.
Isooctyl mercaptoacetate	No data available.

Toxicity to terrestrial organisms

Product:	No data available.
Components:	
Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate	No data available.
Isooctyl mercaptoacetate	No data available.

12.2 Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate	30 - 40 %, 28 d, OECD 301 F, The product is not biodegradable., aerobic
Isooctyl mercaptoacetate	76 %, 28 d, OECD 301 F, The product is easily biodegradable., aerobic

BOD/COD Ratio

Product:	No data available.
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12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate	No data available.
Isooctyl mercaptoacetate	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:	not measured
Components:	
Diisooctyl 2,2'- [(dioctylstannylene)bis(thi o)]diacetate	No data available.
Isooctyl mercaptoacetate	No data available.

12.4 Mobility in soil:

Product name: KOSMOS 16

Product No data available.
Components:
Diisooctyl 2,2'- No data available.
[(dioctylstannylene)bis(thio)]
diacetate
Isooctyl mercaptoacetate No data available.

12.5 Results of PBT and vPvB assessment:

Product No data available.
Components:
Diisooctyl 2,2'- No data available.
[(dioctylstannylene)bis(thio)]
diacetate
Isooctyl mercaptoacetate No data available.

12.6 Other adverse effects:

Other hazards
Product: Do not allow to enter soil, waterways or waste water canal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.
Disposal methods: In accordance with local authority regulations, take to special waste incineration plant
Contaminated Packaging: If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

SECTION 14: Transport information

14.1 UN/ID No.

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

Product name: KOSMOS 16**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****EU Regulations**

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities.

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: None present or none present in regulated quantities.

UK EXP1: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended:

Chemical name	CAS-No.
Diisooctyl 2,2'- [(dioctylstannylene)bis(thio)]diacetate	26401-97-8

UK EXP2: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK EXP3: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK BAN: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

15.2 Chemical safety assessment: No chemical safety assessment was carried out for this product.

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

SECTION 16: Other information

Product name: KOSMOS 16

Abbreviations and acronyms:

EH40 WEL:	UK. EH40 Workplace Exposure Limits (WELs), as amended
EH40 WEL / STEL:	Short Term Exposure Limit (STEL):
EH40 WEL / TWA:	Time Weighted Average (TWA):

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data: No data available.

Training information: Comply with national laws regulating employee instruction.

Revision Information Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Product name: KOSMOS 16
