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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : OKS 2681

Manufacturer or supplier's details						
Company name of supplier	:	OKS Spezialschmierstoffe GmbH Ganghoferstr. 47 D-82216 Maisach-Gernlinden Tel.: +49 8142 3051 500 Fax.: +49 8142 3051 599 info@oks-germany.com				
E-mail address of person responsible for the SDS	:	mcm@oks-germany.com Material Compliance Management				
Emergency telephone number	:	+7 495 628 1687 +49 8142 3051 517				
Recommended use of the chemical and restrictions on use						
Recommended use	:	cleaning spray				
Restrictions on use	:	Restricted to professional users.				

2. HAZARDS IDENTIFICATION

GHS Classification (According to GOST 32423, GOST 32424 and GOST 32425) Aerosols : Category 1				
GHS-Labelling (According to Hazard pictograms	G (DST 31340)		
Signal word	:	Danger		
Hazard statements	:	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.		
Precautionary statements	:	 Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. Storage: 		



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P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture	:	Mixture

Chemical nature

: Active agent with propellant and solvent.

Components

Chemical name	Concentration (% w/w)	Occupational E Limits	xposure	CAS-No.	EC-No.	
		MAC value mg/m3 / TSEL value	Hazard Class			
2,5,7,10- tetraoxaundecane	>= 70 - < 90	No data available		4431-83-8	224-631-8	
butane	>= 10 - < 20	MPC-TWA: 300 mg/m3 Data Source: RU OEL	4	106-97-8	203-448-7	
		MPC-STEL: 900 mg/m3 Data Source: RU OEL	4			
propane	>= 1 - < 10	No data available		74-98-6	200-827-9	

4. FIRST AID MEASURES

If inhaled	medical attent Keep patient v If unconscious advice. Keep respirate	on to fresh air. If signs/symptoms continue, get tion. warm and at rest. s, place in recovery position and seek medical ory tract clear. irregular or stopped, administer artificial
In case of skin contact	Remove conta	aminated clothing. If irritation develops, get



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			medical attention. Wash off with soap and plenty of wa Wash clothing before reuse. Thoroughly clean shoes before reus	
In ca	se of eye contact	:	Rinse immediately with plenty of war for at least 10 minutes. If eye irritation persists, consult a sp	
lf swa	allowed	:	Move the victim to fresh air. Keep respiratory tract clear. Do NOT induce vomiting. Rinse mouth with water.	
	important symptoms effects, both acute and /ed	:	Inhalation may provoke the following Unconsciousness Dizziness Drowsiness Headache Nausea Tiredness	g symptoms:
Note	s to physician	:	Treat symptomatically.	

5. FIREFIGHTING MEASURES

Flammable properties		
Flash point	:	-90 °C Method: Abel-Pensky
Ignition temperature	:	No data available
Upper explosion limit / Upper flammability limit	:	15 %(V)
Lower explosion limit / Lower flammability limit	:	5 %(V)
Flammability (solid, gas)	:	Extremely flammable aerosol.
Suitable extinguishing media	:	ABC powder
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Fire Hazard Do not let product enter drains. Contains gas under pressure; may explode if heated. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.



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	azardous combustion oducts	:	Carbon oxides	
Fu	Further information		Standard procedure for chemical f Collect contaminated fire extinguis must not be discharged into drains Cool containers/tanks with water s	hing water separately. This
	pecial protective equipment r firefighters	t :	In the event of fire, wear self-conta Use personal protective equipmen Exposure to decomposition produc health.	t.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Refer to protective measures listed in sections 7 and 8. Only qualified personnel equipped with suitable protective equipment may intervene.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Non-sparking tools should be used.

7. HANDLING AND STORAGE

Advice on safe handling	 Do not use in areas without adequate ventilation. Do not breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. For personal protection see section 8. Keep away from fire, sparks and heated surfaces. Smoking, eating and drinking should be prohibited in the application area.
	application area. Wash hands and face before breaks and immediately after handling the product.





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		Do not ingest. Do not use sparking tools. These safety instructions also may still contain product reside Pressurized container: protect expose to temperatures excee burn, even after use.	from sunlight and do not	
Conditions for safe storage		: BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in accordance with the particular national regulations.		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Data Source		
butane	106-97-8	MPC-TWA (vapour and/or gas)	300 mg/m3	RU OEL (2021-02-03)		
	Further inform	ation: Class 4 - I				
		MPC-STEL (vapour and/or gas)	900 mg/m3	RU OEL (2021-02-03)		
	Further inform	ation: Class 4 - I	_ow hazard			
Engineering measures	ventilation. Handle only i	Use only in an area equipped with explosion proof exhaust ventilation. Handle only in a place equipped with local exhaust (or other appropriate exhaust).				
Personal protective equipme	ent					
Respiratory protection	 Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Short term only 					
Filter type	: Filter type A-I	c				
Hand protection Material Break through time Protective index	: Nitrile rubber : > 10 min : Class 1					
Remarks		For prolonged or repeated contact use protective gloves. The break through time depends amongst other things on the				
			a brand of			

Components with workplace control parameters





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		material, the thickness and th has to be measured for each	ne type of glove and therefore case.
Eye p	protection	: Safety glasses with side-shie	lds
Protective measures		to the concentration and amo at the specific workplace. Choose body protection in re	nent must be selected according ount of the dangerous substance elation to its type, to the dangerous substances, and to
Hygie	ene measures	: Wash face, hands and any e handling.	xposed skin thoroughly after

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	aerosol
Colour	:	colourless
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	Not applicable substance/mixture is non-soluble (in water)
Melting point/range	:	No data available
Boiling point/boiling range	:	-161 °C (1.013 hPa)
Flash point	:	-90 °C
		Method: Abel-Pensky
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Extremely flammable aerosol.
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	15 %(V)



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	er explosion limit / Lower nability limit	· :	5 %(V)	
Vapo	our pressure	:	3.800 hPa (20 °C)	
Relat	tive vapour density	:	No data available	
Relat	tive density	:	0,86 (20 °C) Reference substance: Water The value is calculated	
Dens	iity	:	0,86 g/cm3 (20 °C)	
Bulk	density	:	No data available	
	bility(ies) /ater solubility	:	insoluble	
So	olubility in other solvents	3 :	No data available	
	tion coefficient: n- nol/water	:	No data available	
Auto-	ignition temperature	:	No data available	
Deco	mposition temperature	:	No data available	
Visco Vi	osity iscosity, dynamic	:	No data available	
Vi	iscosity, kinematic	:	< 20,5 mm2/s (40 °C)	
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	No data available	
Subli	mation point	:	No data available	
Meta	l corrosion rate	:	Not corrosive to metals	

10. STABILITY AND REACTIVITY

Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.





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Conditions to avoid	: Heat, flames and sparks. Strong sunlight for prolonged per Risk of receptacle bursting.	iods.
Incompatible materials	: Oxidizing agents	
Hazardous decomposition products	: No decomposition if stored and a	pplied as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity		
Product: Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Symptoms: Inhalation may provoke the following symptoms:, Respiratory disorder
Acute dermal toxicity	:	Remarks: This information is not available.

Components:

257	,10-tetraoxaundecane:
2,0,1	

Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg Method: OECD Test Guideline 423
Acute dermal toxicity	:	LD50 Dermal (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
hutene.		

butane:

Acute inhalation toxicity	: LC50 (Rat): 658 mg/l
	Exposure time: 4 h
	Test atmosphere: gas

Skin corrosion/irritation

Product:

Remarks : This information is not available.



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Com	ponents:			
	,10-tetraoxaundecane	:		
Rem		:	Based on available data, the cla	ssification criteria are not met.
Serie	ous eye damage/eye ir	ritati	on	
Proc	luct:			
Rem	arks	:	Contact with eyes may cause irr	itation.
<u>Com</u>	ponents:			
	,10-tetraoxaundecane	:		
Rem	arks	:	Based on available data, the cla	ssification criteria are not met.
Res	oiratory or skin sensiti	isatio	n	
Proc				
Rem	arks	:	This information is not available	
<u>Com</u>	ponents:			
2,5,7	,10-tetraoxaundecane	:		
Resu	ult	:	Did not cause sensitisation on la	aboratory animals.
Gerr	n cell mutagenicity			
Proc				
Gen	otoxicity in vitro	:	Remarks: No data available	
Gen	otoxicity in vivo		Remarks: No data available	
Con		•		
Carc	inogenicity			
	luct:			
Rem	arks	:	No data available	
Rep	roductive toxicity			
Proc	luct:			
	cts on fertility	:	Remarks: No data available	
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	ts on foetal opment	:	Remarks: No data available	
Repe	ated dose toxicity			
<u>Produ</u> Rema		:	This information is not available.	
Aspir	ation toxicity			
<u>Produ</u> This i	uct: nformation is not ava	ailable.		
Furth	er information			
Produ				
Rema	arks	:	Information given is based on data the toxicology of similar products.	on the components and

12. ECOLOGICAL INFORMATION

Ecotoxicity

<u>Product:</u> Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available

Components:

2,5,7,10-tetraoxaundecane:

Toxicity to fish	: LC50 (Fish): > 100 mg/l
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rsion 5	Revision Date: 09.05.2022		e of last issue: 13.08.2018 e of first issue: 19.09.2013	Print Date: 10.05.2022
			Exposure time: 96 h Method: OECD Test Guideline 203	3
	ity to daphnia and other tic invertebrates	·	EC50 (Daphnia magna (Water flea Exposure time: 48 h Method: OECD Test Guideline 202	
Toxic plants	ity to algae/aquatic s	:	ErC50 (Scenedesmus capricornut 100 mg/l Exposure time: 72 h	um (fresh water algae)): >
Persi	istence and degradabi	lity		
<u>Prod</u> Biode	<u>uct:</u> egradability	:	Remarks: No data available	
	ico-chemical vability	:	Remarks: No data available	
<u>Com</u>	ponents:			
	, 10-tetraoxaundecane: egradability		Concentration: 1,3 % Method: OECD Test Guideline 301	ID
Bioa	ccumulative potential			
<u>Prod</u> Bioac	uct: ccumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substance persistent and very bioaccumulating	d toxic (PBT). e considered to be very
<u>Com</u>	ponents:			
2,5,7	,10-tetraoxaundecane:			
Bioad	ccumulation	:	Remarks: No bioaccumulation is to 4).	be expected (log Pow <=
	ion coefficient: n- ol/water	:	log Pow: -0,69 Method: OECD Test Guideline 107	7
buta	ne:			



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Versio 1.5	n Revision Date: 09.05.2022		e of last issue: 13.08.2018 e of first issue: 19.09.2013	Print Date: 10.05.2022
	artition coefficient: n- ctanol/water	:	log Pow: 2,89 Method: OECD Test Guideline 107	
P	ropane: artition coefficient: n- ctanol/water	:	log Pow: 2,36	
М	obility in soil			
P	roduct:			
M	lobility	:	Remarks: No data available	
	istribution among nvironmental compartments	:	Remarks: No data available	
0	ther adverse effects			
A	roduct: dditional ecological formation	:	No information on ecology is available.	
<u>c</u>	omponents:			
2,	5,7,10-tetraoxaundecane:			
	esults of PBT and vPvB ssessment	:	Non-classified vPvB substance Non-clas	sified PBT substance

Hygienic standards:

(Allowable concentration in air, water, including fishery waters, soil)

Components	Air	Water	Soil	Data Source
butane	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 200 mg/m3 Limiting health hazard indicator: reflectory Class 4 - low hazard	Maximum Permissible Concentration 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3		List 5
propane		Maximum Permissible Concentration 0,05 Milligrams per cubed decimeter Limiting health		List 5





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		hazard indicator: toxic Hazard class: 3	

List 5: Order of the Russian Federal Fisheries Agency "Standards of maximum permissible concentrations of harmful substances in fishery water bodies"

13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of with domestic refuse. Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product. Offer empty spray cans to an established disposal company. Pressurized container: Do not pierce or burn, even after use.
		The following Waste Codes are only suggestions:
Waste Code	:	unused product, packagings not completely emptied 16 05 04*, gases in pressure containers (including halons) containing hazardous substances

14. TRANSPORT INFORMATION

ADR UN number Proper shipping name Class Packing group Labels Tunnel restriction code	-	UN 1950 AEROSOLS 2 Not assigned by regulation 2.1 (D)
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft) IMDG-Code UN number	:	UN 1950 Aerosols, flammable 2.1 Not assigned by regulation Flammable Gas 203 203 UN 1950



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Prope	er shipping name	: AEROSOLS	
Class Packing group Labels EmS Code Marine pollutant		 2.1 Not assigned by regulation 2.1 F-D, S-U no 	

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

National regulatory information

Federal Law of 10.01.2002 No. 184-FZ "On Technical Regulation".
Federal Law of 10.01.2002 No. 7-FZ "On Environmental Protection".
Federal Law of 21.07.1997 No. 116-FZ (amended on 11.06.2021) "On industrial safety of hazardous production facilities".
Federal Law of 24.06.1998 No. 89-FZ (amended on 02.07.2021) "On production and consumption waste".
Federal Law of 10.01.2002 No. 7-FZ (amended on 02.07.2021) "On environmental protection".
Federal Law of 04.05.1999 No. 96-FZ "On the protection of atmospheric air" (as amended on December 8, 2020).
Federal Law of 30.03.1999 No. 52-FZ (amended on 02.07.2021) "On the Sanitary and Epidemiological Well-Being of the Population" (amended and supplemented, entered into force on 31.10.2021).
Federal Law of 27.12.2002 No. 184-FZ (amended on 02.07.2021) "On Technical Regulation" (amended and supplemented, entered into force on 01.09.2021).

TECHNICAL REGULATIONS OF THE CUSTOMS UNION TR CU 030/2012 On requirements for lubricants, oils and special fluids (amended on 03.03.2017).

16. OTHER INFORMATION

List of data sources used in the preparation of the Safety Data Sheet

GOST 30333-2007. Interstate standard. Safety data sheet for chemical products. Primary requirements.

GOST 12.1.007-76 Occupational safety standards system. Noxious substances. Classification and general safety requirements

GOST 12.1.044-89 Occupational safety standards system. Fire and explosion hazard of substances and materials. Nomenclature of indices and methods of their determination



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GOST 14192-96. Interstate standard. Cargo marking. Minsk, 1998.

GOST 31340-2013. Interstate standard. Precautionary labeling of chemical products. General requirements.

GOST 32419-2013 Classification of the hazard of chemical products. General requirements. GOST 32421-2013 Classification of chemical products, the hazard of which is due to physical and chemical properties. Test methods for explosive chemical products.

GOST 32423-2013 Hazard classification of mixed chemical products by their effects on the body. GOST 32424-2013 Classification of the hazard of chemical products by their impact on the environment. Basic provisions.

GOST 32425-2013 Hazard classification of mixed chemical products in terms of environmental impact.

GOST R 53264-2009 Fire fighting equipment. Special protective clothing for firefighters. General technical requirements. Test methods.

GOST R 53265-2009 Fire fighting equipment. Personal protective equipment for the feet of the firefighter. General technical requirements. Test methods.

GOST R 53268-2009 Fire fighting equipment. Fire rescue belts. General technical requirements. Test methods.

GOST R 53269-2009 Fire fighting equipment. Firefighters helmets. General technical requirements. Test methods.

SanPiN 1.2.3685-21 "Hygienic standards and requirements for ensuring the safety and (or) harmlessness to humans of environmental factors" dated 28.01.2021.

SanPiN 2.1.3684-21 "Sanitary and epidemiological requirements for the maintenance of the territories of urban and rural settlements, for water bodies, drinking water and drinking water supply, atmospheric air, soils, living quarters, the operation of industrial, public premises, the organization and implementation of sanitary and anti-epidemic (preventive) measures".

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). United Nations. New York and Geneva, 20.

International Maritime Dangerous Goods Code (IMDG-Code).

Water quality standards for fishery water bodies, including standards for maximum permissible concentrations of harmful substances in the waters of fishery water bodies (approved by order of the Ministry of Agriculture of Russia dated December 13, 2016 No. 552).

Regulations for the carriage of dangerous goods (Appendix 1 and 2) to the Agreement on International Goods Transport by Rail (SMGS), 2009.

UN Recommendations on the Transport of Dangerous Goods. Typical rules. Twenty-first revised edition. United Nations, New York and Geneva, 2019.

Full text of other abbreviations

Flam. Gas	:	Flammable gases
Flam. Liq.	:	Flammable liquids
Press. Gas	:	Gases under pressure
RU OEL	:	SanPiN 1.2.3685-21 Table 2.1, Table 2.8, Table 2.16 & Table 2.17 Maximum permissible concentrations (MPC) in the air of the working area
RU OEL / MPC-STEL RU OEL / MPC-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; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances



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(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; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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