



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: wbcil@wbcil.com

Website: www.wbcil.com

Section 1 - Chemical Product and Company Identification

1.1 MSDS Name: Potassium Acetate

1.2 Product Code: PAEIH99

1.3 Relevant identified uses of the substance or mixture and uses advised against:

Laboratory chemicals, Manufacture of substances, Food, drug, pesticide or biocidal product use.

1.4 Company Identification: WEST BENGAL CHEMICAL INDUSTRIES LIMITED

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Section 2 - Hazards Identification

2.1 Classification of the substance or mixture:

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.1.1 Classification of hazards

Skin Irrit. 2 (11.3%)

Eye Irrit. 2 (12.6%)

STOT SE 3 (11.3%)

2.2 Label elements: Labelling according to Regulation (EC) No. 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]

2.3 Signal: Warning

2.4 Hazard Statements:

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

2.5 Precautionary Statement Codes:

Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash hands thoroughly after handling.

P264 + P265: Wash thoroughly after handling. Do not touch eyes, mouth, or skin before washing hands.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves, protective clothing, eye protection, and face protection.

Response:

P302 + P352: If on skin: Wash with plenty of soap and water.



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P304 + P340: If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P319: Get medical help if you feel unwell.

P321: Specific treatment (refer to the product's safety instructions).

P332 + P317: If skin irritation occurs: Get medical help/attention.

P337 + P317: If eye irritation persists: Get medical help/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

Storage:

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal:

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

2.6 Potential acute health effects:

Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

2.7 Potential chronic health effects:

Hazardous in case of skin contact (irritant).

2.7.1 Carcinogenic effects:

No data available.

2.7.2 Mutagenic effects:

No data available.

2.7.3 Teratogenic effects:

No data available.

2.7.4 Developmental toxicity:

No data available.

2.8 Endocrine disrupting properties:

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

2.9 Other hazards:

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

2.10 Hazards not otherwise classified (HNOC):

None identified

2.11 Pictogram





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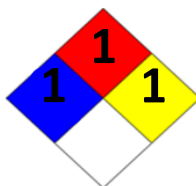
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2.14 NFPA SCALE:



NFPA SCALE (0-4)

2.13 HMIS diagram

Health	1
Flammability	1
Physical Hazard	1
Personal protection	X

HMIS RATINGS (0-4)

Section 3 - Composition / Information on Ingredients

3.1 Ingredient Name: Potassium acetate

3.2 CAS Number: 127-08-2

3.3 EC number: 204-822-2

3.4 % wt: 99.0 – 100.5%

3.5 Molecular Wt.: 98.14 g/mol

3.6 Molecular Formula: C₂H₃O₂K

Section 4 - First Aid Measures

4.1 Description of first-aid measures:

4.1.1 Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

4.1.2 Skin Contact:

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

4.1.3 Inhalation:



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Section 4 - First Aid Measures

Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

4.1.4 Ingestion:

Do NOT induce vomiting. Get medical attention.

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

4.2.1 Symptoms/effects after inhalation:

Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.

Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

4.2.2 Symptoms/effects after skin contact:

None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

4.2.3 Symptoms/effects after eye contact:

None under normal conditions. Dust from this product may cause eye irritation.

4.2.4 Symptoms/effects after ingestion:

None under normal conditions

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Section 5 - Fire-Fighting Measures

5.1 Suitable Extinguishing Media:

Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

5.1.1 Unsuitable Extinguishing Media:

No information available

5.2 Flash Point:

Not applicable

5.3 Autoignition Temperature:

No information available

5.4 Explosion Limits:

Upper No data available

Lower No data available

5.5 Sensitivity to Mechanical Impact:



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No information available

5.6 Sensitivity to Static Discharge:

No information available

5.7 Specific Hazards Arising from the Chemical:

Dust can form an explosive mixture with air. Keep product and empty container away from heat and sources of ignition.

5.8 Hazardous Combustion Products:

Carbon monoxide (CO). Carbon dioxide (CO₂). Potassium oxides.

5.9 Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.10 Further information:

Prevent fire extinguishing water from contaminating surface water or the ground water system.

5.11 Emergency procedures:

Stop release. Evacuate unnecessary personnel.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment & emergency procedures:

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

6.2 Environmental precautions:

Should not be released into the environment. See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment & cleaning up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Section 7 - Handling and Storage

7.1 Precautions for safe handling:

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation. Protect from moisture.

7.2 Conditions for safe storage including any incompatibilities:

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

7.2.1 Storage conditions

Tightly closed. Dry.

Hygroscopic.



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Section 7 - Handling and Storage

7.2.2 Storage class

Storage class (TRGS 510): 13: Non-combustible Solids

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters:

National occupational exposure and biological limit values

Country	Name of agent	CAS No	identifier	TWA [mg/m ³]	STEL [mg/m ³]	Ceiling-C [mg/m ³]	Notation	Source
AU	Nuisance dusts		WES	10			i	WES

Notation

Ceiling-C: Ceiling value is a limit value above which exposure should not occur

i: Inhalable fraction

STEL: Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15 minutes period (unless otherwise specified)

TWA: Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

8.2 Recommended monitoring procedures:

No additional information available

8.3 Air contaminants formed:

No additional information available

8.4 Human health values:

Relevant DNELs and other threshold levels				
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure limit
DNEL	1266 mg/m ³	Human, inhalatory	Worker (industry)	Chronic- systemic effect
DNEL	1266 mg/m ³	Human, inhalatory	Worker (industry)	Acute – systemic effects
DNEL	14.35 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic- systemic effect
DNEL	86.14 mg/kg bw/day	Human, dermal	Worker (industry)	Acute – systemic effects



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Section 8 - Exposure Controls / Personal Protection

8.5 Environmental values:

Relevant PNECs and other threshold levels				
Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
PNEC	0.46 mg/l	Aquatic organism	Freshwater	Short-term (Single instance)
PNEC	0.046 mg/l	Aquatic organism	Marine water	Short-term (Single instance)
PNEC	0.862 g/l	Aquatic organism	Sewage treatment plant (STP)	Short-term (Single instance)
PNEC	0.002 mg/kg	Aquatic organism	Freshwater sediment	Short-term (Single instance)
PNEC	0 mg/kg	Aquatic organism	Marine Sediment	Short-term (Single instance)
PNEC	0.002 mg/kg	terrestrial organism	Soil	Short-term (Single instance)

8.6 Control banding:

No additional information available

8.7 Exposure Guidelines:

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

8.8 Engineering Measures:

None under normal use conditions.

8.9 Personal Protective Equipment

8.9.1 Eye/face Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Safety glasses

8.9.2 Skin and body protection:

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact



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Section 8 - Exposure Controls / Personal Protection

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

8.9.3 Respiratory Protection:

Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type:

Filter type P1

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

8.10 Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance form	:	Crystalline powder
Colour	:	white
Taste	:	Saline and slightly alkaline test
Odour	:	Odourless or faint acetous odour
Melting point/freezing point	:	292 °C
Boiling point or initial boiling point and boiling range	:	392.4 °C (ECHA)



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Section 9 - Physical and Chemical Properties

Flammability	:	combustible, but will not ignite readily
Lower and upper explosion limit	:	not relevant (solid)
Flash point	:	not applicable
Auto-ignition temperature	:	>410 °C (ECHA)
Decomposition temperature	:	not relevant
pH (value)	:	7.5 – 8.5
Kinematic viscosity	:	not relevant
Solubility(ies)	:	Water solubility 256 g /100 ml at 20 °C
Partition coefficient n-octanol/water (log value)	:	-3.72 (ECHA)
Soil organic carbon/water (log KOC)	:	0 (ECHA)
Vapour pressure	:	< 0,0000001 hPa at 25 °C
Density	:	1.6 g /cm ³ at 25 °C
Relative vapour density	:	not relevant (solid)
Bulk density	:	~1.8 g/cm ³
Particle characteristics	:	No data available.
Oxidising properties	:	none
9.2 Other information with regard to physical hazard classes:		
hazard classes acc. to GHS (physical hazards)	:	not relevant
9.3 Other safety characteristics:		
	:	There is no additional information.

Section 10 - Stability and Reactivity

10.1 Reactivity:

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed

10.2 Stability:

Hygroscopic. Absorbs moisture from air and becomes liquid.

10.3 Conditions to Avoid:

Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.

10.4 Incompatible Materials:

Strong oxidizing agents

10.5 Hazardous Decomposition Products:

Carbon monoxide (CO), Carbon dioxide (CO₂), Potassium oxides

10.6 Hazardous Polymerization Incompatibilities:

Hazardous polymerization does not occur.

10.7 Hazardous Reactions:

Possible with strong oxidizing agent



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Section 11 - Toxicological Information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 inhalation dust/mist
Potassium acetate	LD50 = 3250 mg/kg (Rat)	LD50 > 20000 mg/kg (Rabbit)	> 5.6 mg/l /4h

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Potassium acetate	127-08-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects

See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment

Aquatic toxicity (acute)				
Endpoint	Value	Species	Source	Exposure time
LC50	>992.7 mg/l	fish	ECHA	95 h
EC50	>919 mg/l	aquatic invertebrates	ECHA	48 h



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ErC50	>1000 mg/l	algae	ECHA	72 h
Aquatic toxicity (chronic)				
Endpoint	Value	Species	Source	Exposure time
EC50	8.62 g/l	Microorganisms	ECHA	16h
12.2 Persistence and degradability				
Theoretical Oxygen Demand: 0.5705 mg/mg				
Theoretical Carbon Dioxide: 0.8968 mg/mg				
Biodegradation				
The substance is readily biodegradable				
Process of degradability				
Process	Degradation rate		Time	
Biotic/Abiotic	49%		5 d	
DOC removal	99%		28 d	
12.3 Bio-accumulative potential				
Does not significantly accumulation in organisms				
n-octanol/water (log KOW)	-3.72 (ECHA)			
BCF	3.162 (ECHA)			
12.4 Mobility in soil				
The organic carbon normalized adsorption coefficient	0 (ECHA)			
12.5 Results of PBT and vPvB assessment				
According to the results of its assessment, this substance is not a PBT or a PvB				
12.6 Endocrine disrupting properties				
Does not contain an endocrine disrupter (ED) at a concentration of $\geq 0.1\%$				

Section 13 - Disposal Considerations

Waste Disposal Methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14 - Transport Information

14.1 UN number

ADR/RID: - IMDG: - IATA: -



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14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precaution for user: No data available

Further information: Not classified as dangerous in the meaning of transport regulations.

14.7 D O T Classification: Not a DOT controlled material

14.8 Air transport Goods: Nonhazardous/non-dangerous as per IATA DGR.

14.9 Special Provision for Transport: Not applicable

14.10 IATA Specification: Non-dangerous, non-hazardous

14.11 DOT: AS PER IATA REGULATION SAFE FOR CARRAGE, NONHAZARDOUS AND NON-RESTRICTED. NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED. THIS IS NOT REGULATED AS PER IATA REGULATION



Section 15 - Regulatory Information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Potassium acetate	127-08-2	X	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).



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Section 15 - Regulatory Information

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Potassium acetate	127-08-2	X	-	204-822-2	X	X	X	X	X	KE-29069

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation	
Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	Slight risk, Grade 1

Authorization/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Potassium acetate	127-08-2	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Potassium acetate	127-08-2	Not applicable	Not applicable	Not applicable	Not applicable



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Section 16 - Other Information

Disclaimer: This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

Full text of other abbreviations

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);

EC_x - Concentration associated with x% response;

EL_x - Loading rate associated with x% response;

EmS - Emergency Schedule;

ENCS - Existing and New Chemical Substances (Japan);

ErC_x - 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);



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Section 16 - Other Information

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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