

Precautionary statements (GHS US)

Print date: 03/07/2023

EN (English US)

H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

P312 - Call a doctor if you feel unwell.

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

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	P210 - Keep away from heat, open flames, sparks No smoking.
	P220 - Keep/Store away from flammable or combustible materials, oxidizer
	P234 - Keep only in original container.
	P261 - Avoid breathing mist, dust.
	P264 - Wash hands thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
	P302+P352 - If on skin: Wash with plenty of soap and water.
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P321 - Specific treatment (see first aid instructions on this label).
	P362+P364 - Take off contaminated clothing and wash it before reuse.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
	P405 - Store locked up.
	P410 - Protect from sunlight.
	P411+P235 - Store at temperatures not exceeding 30°C (86°F). Keep cool.
	P420 - Store away from other materials.
	P501 - Dispose of contents/container to licensed waste disposal facility
2.3. Hazards not otherwise classified (HNOC)	

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
2,4-Dichlorobenzoyl peroxide	CAS-No.: 133-14-2		Org. Perox. D, H242 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Poly(dimethylsiloxane)	CAS-No.: 63148-62-9	48 – 50	Not classified

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

SECTION 4: First-aid measures			
4.1. Description of first aid measures			
First-aid measures general		hing and shoes. In case of accident or if you feel he label where possible). If possible show this sh	
First-aid measures after inhalation	: Remove victim to fresh air unwell, seek medical advic	and keep at rest in a position comfortable for brea e.	athing. If you feel
First-aid measures after skin contact	: Wash with plenty of soap a	nd water. Get medical advice/attention.	
First-aid measures after eye contact		roughly with water for at least 15 minutes. Removen ntinue rinsing. Get medical advice/attention.	ve contact lenses, if
First-aid measures after ingestion	: Never give anything by mo	uth to an unconscious person. Get medical advic	e/attention.
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4.2. Most important symptoms and effects (a	cute and delayed)
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	<ul> <li>May cause respiratory irritation.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> </ul>
4.3. Immediate medical attention and special	treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing I	media
Suitable extinguishing media Unsuitable extinguishing media	<ul> <li>Water spray. Foam. Carbon dioxide. Dry chemical.</li> <li>Do not use straight streams.</li> </ul>
5.2. Specific hazards arising from the chemic	cal
Fire hazard Explosion hazard Reactivity	<ul> <li>Heating may cause a fire. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.</li> <li>Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.</li> <li>Self-accerating decomposition temperature is 60°C. Violent reaction or explosion can result if bulk material is heated above SADT (60°C). Typical safe processing temperature for elastomer</li> </ul>
	compounding is 75°C.
5.3. Special protective equipment and precau	utions for fire-fighters
Firefighting instructions Protection during firefighting	<ul> <li>Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.</li> <li>Do not enter fire area without proper protective equipment, including respiratory protection. Do not breathe dust or spray mist.</li> </ul>
SECTION 6: Accidental release measure	S
6.1. Personal precautions, protective equipm	ent and emergency procedures
General measures	Eliminate ignition sources. Use special care to avoid static electric charges.
6.1.1. For non-emergency personnel	
Protective equipment Emergency procedures	<ul> <li>Wear protective equipment as described in Section 8.</li> <li>Evacuate unnecessary personnel.</li> </ul>
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify auth	orities if product enters sewers or public waters.
6.3. Methods and material for containment a	nd cleaning up
For containment	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or
Methods for cleaning up	<ul> <li>streams.</li> <li>Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Sweep or shovel spills into appropriate container for disposal.</li> </ul>

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Keep away from heat/sparks/open flames/hot surfaces No smoking. Hazardous waste due to
Precautions for safe handling	<ul> <li>potential risk of explosion.</li> <li>Avoid contact with skin and eyes. Do not breathe dust or spray mist. Use only outdoors or in a well-ventilated area.</li> </ul>
Hygiene measures	<ul> <li>Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures Storage conditions	<ul> <li>Proper grounding procedures to avoid static electricity should be followed.</li> <li>Store in sealed containers below 30°C. Keep container tightly closed. Keep only in original container. Protect from sunlight. Store locked up. Store away from other materials.</li> </ul>
Incompatible materials Storage area Special rules on packaging	<ul> <li>Flammable or combustible materials. Oxidizing agent.</li> <li>Store in a well-ventilated place. Store away from heat.</li> <li>Keep only in original container.</li> </ul>
SECTION 8: Exposure controls/perse	onal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Provide local exhaust or general room ventilation.
8.3. Individual protection measures/Pers	
Personal protective equipment:	wash fountains and safety showers should be available in the immediate vicinity of any potential
Hand protection: Neoprene or nitrile rubber gloves	
Eye protection: Chemical goggles. Contact lenses should not be	worn
Skin and body protection: Wear suitable protective clothing	
<b>Respiratory protection:</b> Where exposure through inhalation may occur fro vapor/acid gas (yellow cartridge) respirator.	om use, respiratory protection equipment is recommended. NIOSH-certified combination organic
SECTION 9: Physical and chemical p	properties
9.1. Information on basic physical and cl	hemical properties
Physical state Appearance Molecular mass Color Odor Odor	<ul> <li>Solid</li> <li>Thick paste.</li> <li>380 g/mol</li> <li>Off-white.</li> <li>Slight.</li> <li>No data available</li> </ul>
pH Relative evaporation rate (butyl acetate=1) Melting point	<ul> <li>No data available</li> </ul>

Freezing point

: No data available

: No data available

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Flash point	: No data available
Auto-ignition temperature	: > 380 °C
Decomposition temperature	: Self-accelerating decomposition temperature (SADT): - estimated 60°C
Flammability (solid, gas)	: Heating may cause a fire.
Vapor pressure	: No data available
Relative vapor density at 20°C	: >1
Relative density	: 1.26
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Heating may cause a fire.
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Self-accerating decomposition temperature is 60°C. Violent reaction or explosion can result if bulk material is heated above SADT (60°C). Typical safe processing temperature for elastomer compounding is 75°C.

#### **10.2. Chemical stability**

Stable in sealed containers stored below 30°C (86°F). Never allow temperature to exceed 50°C (122°F) during storage.

10.3. Possibility of hazardous reactions

Non-hazardous polymerization can occur at elevated temperature.

10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Flammable or combustible materials. Oxidizing agent.

**10.6. Hazardous decomposition products** 

Organic acid vapors. Polychlorinated biphenyls.

### **SECTION 11: Toxicological information**

#### **11.1. Information on toxicological effects**

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
2,4-Dichlorobenzoyl peroxide (133-14-2)	
LD50 oral rat	<ul> <li>&gt; 2500 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)</li> </ul>
Poly(dimethylsiloxane) (63148-62-9)	
LD50 oral rat	> 24 g/kg

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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Reason for classification	: Expert judgment

### **SECTION 12: Ecological information**

SECTION 12: Ecological Information	
12.1. Toxicity	
2,4-Dichlorobenzoyl peroxide (133-14-2)	
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Poecilia reticulata
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
2,4-Dichlorobenzoyl peroxide (133-14-2)	
Partition coefficient n-octanol/water (Log Pow)	6.03
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other adverse effects Effect on the ozone layer	<ul><li>This substance may be hazardous to the environment.</li><li>No additional information available</li></ul>
SECTION 13: Disposal considerations	5
13.1. Disposal methods	
Sewage disposal recommendations Product/Packaging disposal recommendations Additional information Ecology - waste materials	<ul> <li>Do not dispose of waste into sewer.</li> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility</li> <li>Hazardous waste due to potential risk of explosion.</li> <li>Avoid release to the environment.</li> </ul>
SECTION 14: Transport information	

### SECTION 14: Transport information

In accordance with DOT / TDG / IMDG	G / IATA		
DOT	TDG	IMDG	ΙΑΤΑ
14.1. UN number			
3106	Not applicable	3106	3106

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DOT	TDG		IMDG	ΙΑΤΑ
14.2. Proper Shipping Name			J	I
Organic peroxide type D, solid ((2,4- DICHLOROBENZOYL PEROXIDE, 50% in polydimethylsiloxane))	Not applicable		ORGANIC PEROXIDE TYPE D, SOLID (2,4-DICHLOROBENZOYL PEROXIDE, 50% in polydimethylsiloxane)	Organic peroxide type D, solid (2, DICHLOROBENZOYL PEROXIDI 50% in polydimethylsiloxane)
Transport document description			·	
UN3106 Organic peroxide type D, solid (2,4-DICHLOROBENZOYL PEROXIDE, 50% in polydimethylsiloxane), 5.2	Not applicable		UN 3106 ORGANIC PEROXIDE TYPE D, SOLID (2,4- DICHLOROBENZOYL PEROXIDE, 50% in polydimethylsiloxane), 5.2	UN 3106 Organic peroxide type D solid (2,4-DICHLOROBENZOYL PEROXIDE, 50% in polydimethylsiloxane), 5.2
14.3. Transport hazard class(es	)		·	
5.2	Not applicable		5.2	5.2
Not applicable	Not applicable		5.2	5.2
14.4. Packing group				
Not applicable	Not applicable		Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No No supplementary information availab	Dangerous for the environn		Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: N
14.6. Special precautions for us	er			
DOT UN-No.(DOT) DOT Packaging Exceptions (49 CFR 1 DOT Packaging Non Bulk (49 CFR 17: DOT Quantity Limitations Passenger a CFR 173.27) DOT Quantity Limitations Cargo aircra CFR 175.75) DOT Vessel Stowage Location	: UN3106 73.xxx) : 152 3.xxx) : 225 ircraft/rail (49 : 5 kg ft only (49 : 10 kg : D - The ma carrying a passenger	number o per each	st be stowed "on deck only" on a carge f passengers limited to not more than t 3 m of overall vessel length, but the m limiting number of passengers is exce	he larger of 25 passengers or one aterial is prohibited on passenger
DOT Vessel Stowage Other	: 12 - Keep a	as cool as	ids,53 - Stow "separated from" alkaling	from sources of heat,52 - Stow
DG Emergency Response Guide (ERG) No	umber : 145			
MDG Special provision (IMDG) imited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	: 122, 274 : 500 g : E0 : P520			
Print date: 03/07/2023	EN (English US)		SDS ID: <b>SID3352</b>	.0 7/10

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EmS-No. (Fire)			RATURE-CONTROLL	ED SELF-REACTIVES AND
	ORGANIC PEROXIDES			
EmS-No. (Spillage)	: S-R - SPILLAGE SCHE	DULE Romeo - ORG	ANIC PEROXIDES	
Stowage category (IMDG)	: D			
Stowage and handling (IMDG)	: SW1			
Segregation (IMDG)	: SG35, SG36, SG72		<i>.</i>	
Properties and observations (IMDG)	<ul> <li>Decomposes at elevated 3-chloroperoxybenzoic a irritant or toxic fumes.</li> </ul>			Insoluble in water except for be avoided. May evolve
IATA PCA Excepted quantities (IATA)	. 50			
	: E0 : Forbidden			
	: Forbidden			
PCA packing instructions (IATA) PCA max net quantity (IATA)	: 570 : 5kg			
	: 5kg			
1 0 ( )	: 570 : 10kg			
CAO max net quantity (IATA)	: 10kg			
Special provision (IATA) ERG code (IATA)	: A20, A802 : 5L			
SECTION 15: Regulatory information 15.1. US Federal regulations	nited States Environmental	Protection Agency's	Toxic Substances Cor	ntrol Act (TSCA):
Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations Commercial status of components according to the Ur Name	nited States Environmental	Protection Agency's	Toxic Substances Cor Commercial status	ntrol Act (TSCA):
SECTION 15: Regulatory information 15.1. US Federal regulations Commercial status of components according to the Ur			Commercial	
SECTION 15: Regulatory information 15.1. US Federal regulations Commercial status of components according to the Ur Name	CAS-No.	Listing	Commercial status	
SECTION 15: Regulatory information 15.1. US Federal regulations Commercial status of components according to the Ur Name 2,4-Dichlorobenzoyl peroxide	CAS-No. 133-14-2	Listing Present	Commercial status Active	
SECTION 15: Regulatory information 15.1. US Federal regulations Commercial status of components according to the Ur Name 2,4-Dichlorobenzoyl peroxide Poly(dimethylsiloxane) 15.2. International regulations	CAS-No. 133-14-2	Listing Present	Commercial status Active	
SECTION 15: Regulatory information 15.1. US Federal regulations Commercial status of components according to the Ur Name 2,4-Dichlorobenzoyl peroxide Poly(dimethylsiloxane)	CAS-No. 133-14-2	Listing Present	Commercial status Active	
SECTION 15: Regulatory information 15.1. US Federal regulations Commercial status of components according to the Ur Name 2,4-Dichlorobenzoyl peroxide Poly(dimethylsiloxane) 15.2. International regulations CANADA 2,4-Dichlorobenzoyl peroxide (133-14-2)	CAS-No. 133-14-2 63148-62-9	Listing Present	Commercial status Active	
SECTION 15: Regulatory information 15.1. US Federal regulations Commercial status of components according to the Ur Name 2,4-Dichlorobenzoyl peroxide Poly(dimethylsiloxane) 15.2. International regulations CANADA	CAS-No. 133-14-2 63148-62-9	Listing Present	Commercial status Active	
SECTION 15: Regulatory information 15.1. US Federal regulations Commercial status of components according to the Ur Name 2,4-Dichlorobenzoyl peroxide Poly(dimethylsiloxane) 15.2. International regulations CANADA 2,4-Dichlorobenzoyl peroxide (133-14-2) Listed on the Canadian DSL (Domestic Substances L	CAS-No. 133-14-2 63148-62-9	Listing Present	Commercial status Active	
SECTION 15: Regulatory information 15.1. US Federal regulations Commercial status of components according to the Ur Name 2,4-Dichlorobenzoyl peroxide Poly(dimethylsiloxane) 15.2. International regulations CANADA 2,4-Dichlorobenzoyl peroxide (133-14-2) Listed on the Canadian DSL (Domestic Substances L Poly(dimethylsiloxane) (63148-62-9) Listed on the Canadian DSL (Domestic Substances L	CAS-No. 133-14-2 63148-62-9	Listing Present	Commercial status Active	
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#### **National regulations**

### 2,4-Dichlorobenzoyl peroxide (133-14-2)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the NCI (Vietnam - National Chemical Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

### Poly(dimethylsiloxane) (63148-62-9)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### **SECTION 16: Other information**

H242	Heating may cause a fire.
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
Abbreviations and acronyms	Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation ar Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor.
Hazard Rating Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	<ul> <li>3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions</li> <li>Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB &amp; IC)</li> </ul>
Physical	1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at hig temperatures and pressures. Materials may react non-violently with water or undergo hazardou polymerization in the absence of inhibitors.

Prepared by safety and environmental affairs.

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Safety Data Sheet

#### SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

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