

# SAFETY DATA SHEET

**Issue Date** 25-Mar-2021 **Revision Date** 26-Jan-2024 **Version** 1.7 **Page** 1 / 15

# 1. IDENTIFICATION

**Product identifier** 

Product Name Diphenylcarbazone Reagent

Other means of identification

Product Code(s) 83699

Safety data sheet number M00015

Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory reagent. Determination of chloride.

Uses advised against Consumer use.

**Restrictions on use** Please refer to the product labeling and packaging for information about appropriate use.

## Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

## Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

# 2. HAZARDS IDENTIFICATION

#### Classification

## **Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

## Hazards not otherwise classified (HNOC)

Not applicable

## **Label elements**

# Signal word

Warning



EN / AGHS Page 1/15

Version 1.7

Product Name Diphenylcarbazone Reagent

Revision Date 26-Jan-2024

Page 2/15

#### **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

#### **Precautionary statements**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical attention

P362 - Take off contaminated clothing and wash before reuse

P280 - Wear protective gloves, protective clothing, eye protection, and face protection

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 attention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

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

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

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

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Other Hazards Known

May be harmful if swallowed

May be harmful in contact with skin

May be harmful if inhaled

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

# <u>Mixture</u>

Chemical Family Mixture.

**Chemical nature** No information available.

# Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Phthalic acid	88-99-3	60 - 70%	-
Carbonic dihydrazide, 2,2-diphenyl-	140-22-7	<1%	-
Diazenecarboxylic acid, phenyl-, 2-phenylhydrazide	538-62-5	<1%	-

# 4. FIRST AID MEASURES

#### Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

Inhalation IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if

symptoms occur. If breathing has stopped, give artificial respiration. Get medical attention

immediately. Remove to fresh air. If symptoms persist, call a physician.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

EN / AGHS Page 2/15

Revision Date 26-Jan-2024 **Page** 3 / 15

Product Name Diphenylcarbazone Reagent

Skin contact

Version 1.7

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get medical attention.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of

contamination.

Most important symptoms and effects, both acute and delayed

Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. Symptoms

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** 

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

**Unsuitable Extinguishing Media** 

Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

**Hazardous combustion products** 

Carbon monoxide, Carbon dioxide.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**U.S. Notice** 

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR

1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should

respond to a spill involving chemicals.

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Ensure

adequate ventilation. Avoid generation of dust. Do not breathe dust. Use personal protective

equipment as required.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

EN / AGHS Page 3 / 15

Revision Date 26-Jan-2024 **Page** 4 / 15

**Product Name** Diphenylcarbazone Reagent

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections

See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or

clothing. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach **Storage Conditions** 

of children.

Flammability class Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Guidelines** 

exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hand Protection** Impervious gloves. Wear suitable gloves. Barrier creams may help to protect the exposed

> areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN

374-1:2016.

If splashes are likely to occur, wear safety glasses with side-shields. Eye/face protection

Skin and body protection Long sleeved clothing. Wear suitable protective clothing. Avoid contact with eyes, skin and

clothing. Wash contaminated clothing before reuse.

**General Hygiene Considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using

this product.

Local authorities should be advised if significant spillages cannot be contained. Do not allow **Environmental exposure controls** 

into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

EN / AGHS Page 4 / 15

Version 1.7 Revision Date

Version 1.7 Page 5/15

**Product Name** Diphenylcarbazone Reagent **Revision Date** 26-Jan-2024

rage 3/13

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid

AppearancecrystallineColorLight pink to yellowOdorOdor thresholdNo data available

Property Values Remarks • Method

Molecular weight No data available

**pH** 3.1 @ 5 °C

Melting point / freezing point 167 °C / 332.6 °F

Initial boiling point and boiling range No data available

**Evaporation rate** Not applicable

Vapor pressure Not applicable

Relative vapor density No data available

Specific gravity - VALUE 1 1.40

Partition coefficient log K<sub>ow</sub> ~ -0.18

**Soil Organic Carbon-Water Partition** 

Coefficient

log K<sub>oc</sub> ~ 1.62

Autoignition temperature No data available

**Decomposition temperature**No data available

Dynamic viscosity Not applicable

Kinematic viscosity Not applicable

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

Chemical Name_	Solubility classification_	<u>Solubility</u>	Solubility Temperature_
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

# **Other information**

**Metal Corrosivity** 

Steel Corrosion Rate

No data available
Aluminum Corrosion Rate

No data available

**Volatile Organic Compounds (VOC) Content** 

Not applicable

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
EN / AGHS			Page 5 / 15

Version 1.7

**Product Name** Diphenylcarbazone Reagent **Revision Date** 26-Jan-2024

**Page** 6 / 15

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Phthalic acid	88-99-3	No data available	-
Carbonic dihydrazide, 2,2-diphenyl-	140-22-7	No data available	-
Diazenecarboxylic acid, phenyl-, 2-phenylhydrazide	538-62-5	No data available	-

## **Explosive properties**

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point Not applicable

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
No data available
No data available

Oxidizing properties
No data available.

Bulk density

No data available

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not applicable.

## Chemical stability

Stable under normal conditions.

## **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

## Possibility of hazardous reactions

None under normal processing.

#### **Hazardous polymerization**

None under normal processing.

## Conditions to avoid

Excessive heat.

#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

#### Hazardous decomposition products

Heating to decomposition releases toxic fumes of carbon monoxide and carbon dioxide.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

#### **Product Information**

EN / AGHS Page 6/15

**Product Name** Diphenylcarbazone Reagent **Revision Date** 26-Jan-2024

**Page** 7 / 15

**Inhalation** May cause irritation of respiratory tract. May be harmful by inhalation.

**Eye contact** Irritating to eyes. Causes serious eye irritation.

**Skin contact** Causes skin irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

**Acute toxicity** 

Based on available data, the classification criteria are not met

Mixture

No data available.

**Ingredient Acute Toxicity Data** 

Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Phthalic acid (60 - 70%) CAS#: 88-99-3	Rat LD <sub>50</sub>	1530 mg/kg	None reported	None reported	GESTIS
Carbonic dihydrazide, 2,2-diphenyl- (<1%) CAS#: 140-22-7	Rat LD <sub>50</sub>	> 500 mg/kg	None reported	None reported	RTECS
Diazenecarboxylic acid, phenyl-, 2-phenylhydrazide (<1%) CAS#: 538-62-5	Rat LD <sub>50</sub>	> 500 mg/kg	None reported	None reported	RTECS

#### **Dermal Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Phthalic acid (60 - 70%) CAS#: 88-99-3	Rabbit LD <sub>50</sub>	2740 mg/kg	None reported	None reported	GESTIS

# Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Phthalic acid (60 - 70%)	Rat LC <sub>50</sub>	> 5.1 mg/L	4 hours	None reported	GESTIS
CAS#: 88-99-3					

# Inhalation (Vapor) Exposure Route

# **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

## **Acute Toxicity Estimations (ATE)**

EN / AGHS Page 7/15

Product Name Diphenylcarbazone Reagent Revision Date 26-Jan-2024

Page 8 / 15

# The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,234.20 mg/kg
ATEmix (dermal)	4,001.20 mg/kg
ATEmix (inhalation-dust/mist)	7.45 mg/l
ATEmix (inhalation-vapor)	36.50 mg/l
ATEmix (inhalation-gas)	No information available

## Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

#### **Mixture**

No data available.

## Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Phthalic acid (60 - 70%) CAS#: 88-99-3	Patch test	Rabbit	1000 mg	None reported	Not corrosive or irritating to skin	ECHA

# Serious eye damage/irritation

Classification based on data available for ingredients. Irritating to eyes.

#### **Mixture**

No data available.

# Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Phthalic acid (60 - 70%) CAS#: 88-99-3	Rinse Test	Rabbit	100 mg	1 hours	Corrosive to eyes	ERMA

# Respiratory or skin sensitization

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

#### **Mixture**

No data available.

## **Ingredient Sensitization Data**

Test data reported below.

# **Skin Sensitization Exposure Route**

Chemical name	Test method	Species	Results	Key literature references and sources for data
Phthalic acid (60 - 70%) CAS#: 88-99-3	None reported	Guinea pig	Not confirmed to be a skin sensitizer	No information available

## **Respiratory Sensitization Exposure Route**

Chemical name	Results	Key literature references and
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EN / AGHS Page 8 / 15

**Product Name** Diphenylcarbazone Reagent **Revision Date** 26-Jan-2024

**Page** 9/15

				sources for data
Phthalic acid (60 - 70%) CAS#: 88-99-3	None reported	Guinea pig	Not confirmed to be a skin sensitizer	No information available

## STOT - single exposure

May cause respiratory irritation.

#### **Mixture**

No data available.

# Ingredient Specific Target Organ Toxicity Single Exposure Data

No data available.

#### STOT - repeated exposure

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

#### **Mixture**

No data available.

# Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Test data reported below.

## **Oral Exposure Route**

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Phthalic acid	Rat	102 mg/kg	182 days	Blood	RTECS
(60 - 70%)	TDLo		-	Changes in serum composition	
CAS#: 88-99-3				(e.g. TP, bilirubin, cholesterol)	

# Carcinogenicity

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

#### **Mixture**

No data available.

## **Ingredient Carcinogenicity Data**

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Phthalic acid	88-99-3	-	-	-	-
Carbonic dihydrazide, 2,2-diphenyl-	140-22-7	-	-	-	-
Diazenecarboxylic acid, phenyl-, 2-phenylhydrazide	538-62-5	-	-	-	- -

## Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA	Does not apply

# Germ cell mutagenicity

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

## Mixture invitro Data

No data available.

# Substance invitro Data

EN / AGHS Page 9/15

**Product Name** Diphenylcarbazone Reagent **Revision Date** 26-Jan-2024

**Page** 10 / 15

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Carbonic dihydrazide, 2,2-diphenyl- (<1%) CAS#: 140-22-7	DNA repair	Escherichia coli	0.2 mg/well	None reported	Positive test result for mutagenicity	RTECS

Mixture invivo Data

No data available.

Substance invivo Data

No data available.

Reproductive toxicity

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

**Mixture** 

No data available.

**Ingredient Reproductive Toxicity Data** 

Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Phthalic acid (60 - 70%) CAS#: 88-99-3	Rat TD∟₀	29810 mg/kg		Effects on Embryo or Fetus Fetotoxicity (except death e.g. stunted fetus) Maternal Effects Other effects Specific Developmental Abnormalities	RTECS
				Musculoskeletal system	

**Aspiration hazard** 

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

# 12. ECOLOGICAL INFORMATION

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

Unknown aquatic toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

**Mixture** 

**Aquatic Acute Toxicity** 

No data available.

**Aquatic Chronic Toxicity** 

No data available.

**Substance** 

**Aquatic Acute Toxicity** 

Test data reported below.

EN / AGHS Page 10/15

**Product Name** Diphenylcarbazone Reagent **Revision Date** 26-Jan-2024

**Page** 11 / 15

# **Fish**

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Carbonic dihydrazide, 2,2-diphenyl- (<1%) CAS#: 140-22-7	96 hours	None reported	LC50	6.305 mg/L	ECOSARS
Diazenecarboxylic acid, phenyl-, 2-phenylhydrazide (<1%) CAS#: 538-62-5	96 hours	None reported	LC <sub>50</sub>	5.345 mg/L	ECOSARS

# Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Phthalic acid (60 - 70%) CAS#: 88-99-3	48 Hours	Daphnia magna	EC50	> 640 mg/L	Vendor SDS
Carbonic dihydrazide, 2,2-diphenyl- (<1%) CAS#: 140-22-7	48 Hours	None reported	LC50	38.214 mg/L	ECOSARS
Diazenecarboxylic acid, phenyl-, 2-phenylhydrazide (<1%) CAS#: 538-62-5	48 Hours	Daphnia sp.	LC50	30.93 mg/L	ECOSARS

# Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Carbonic dihydrazide, 2,2-diphenyl- (<1%) CAS#: 140-22-7	96 hours	None reported	EC50	1.497 mg/L	ECOSARS
Diazenecarboxylic acid, phenyl-, 2-phenylhydrazide (<1%) CAS#: 538-62-5	96 hours	None reported	EC50	1.293 mg/L	ECOSARS

# Aquatic Chronic Toxicity Test data reported below.

# Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Phthalic acid (60 - 70%) CAS#: 88-99-3	60 days	Oncorhynchus mykiss	NOEC	10 mg/L	Vendor SDS

# Crustacea

Chemical name	ne Exposure Species		Endpoint	Reported dose Key literature references	
	time		type		sources for data
Phthalic acid	21 days	Daphnia magna	NOEC	16 mg/L	Vendor SDS

EN / AGHS Page 11/15

Version 1.7

**Product Name** Diphenylcarbazone Reagent **Revision Date** 26-Jan-2024

Page 12 / 15

(60 - 70%) CAS#: 88-99-3			
CAS#: 88-99-3			

# Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Phthalic acid (60 - 70%) CAS#: 88-99-3	72 hours	Desmodesmus subspicatus	NOEC	> 100 mg/L	Vendor SDS

## Persistence and degradability

**Mixture** 

No data available.

**Bioaccumulation** 

MATERIAL DOES NOT BIOACCUMULATE

Mixture

No data available.

Partition coefficient log K<sub>ow</sub> ~ -0.18

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient log K₀c ~ 1.62

Other adverse effects

# 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

No information available

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

US EPA Waste Number No data available

**Special instructions for disposal** If permitted by regulation. Dilute material with excess water making a weaker than 5%

solution. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Open cold water tap completely, slowly pour the reacted material to the drain. Allow cold water to run for 5 minutes to completely flush the system. Dispose of material in

an E.P.A. approved hazardous waste facility.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

EN / AGHS Page 12/15

Version 1.7

Product Name Diphenylcarbazone Reagent

Revision Date 26-Jan-2024

**Page** 13 / 15

#### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

#### 15. REGULATORY INFORMATION

**National Inventories** 

TSCA Complies DSL/NDSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **International Inventories**

**EINECS/ELINCS** Complies Complies **ENCS IECSC** Complies Complies **KECL** Complies **PICCS** Complies **TCSI AICS** Complies Complies **NZIoC** 

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

**AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Acute health hazardYesChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## **US State Regulations**

## California Proposition 65

EN / AGHS Page 13/15

Product Code(s) 83699

Issue Date 25-Mar-2021

Version 1.7

Product Name Diphenylcarbazone Reagent

Revision Date 26-Jan-2024

**Page** 14 / 15

This product does not contain any Proposition 65 chemicals

IMERC: Not applicable

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

#### **U.S. EPA Label Information**

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

#### **Special Comments**

None

#### **Additional information**

#### Global Automotive Declarable Substance List (GADSL)

Not applicable

#### NFPA and HMIS Classifications

Γ	NFPA	Health hazards - 2	Flammability - 0	Instability - 0	Physical and chemical
L					properties -
Γ	HMIS	Health hazards - 2	Flammability - 0	Physical hazards - 0	Personal protection -
1			-	-	X
					- I

#### Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH ACGIH (American Conference of Governmental Industrial Hygienists)
ATSDR ATSDR (Agency for Toxic Substances and Disease Registry)
CCRIS (Chemical Carcinogenesis Research Information System)

CDC (Center for Disease Control)

CEPA CEPA (Canadian Environmental Protection Agency)

CICAD CICAD (Concise International Chemical Assessment Documents)

ECHA ECHA (The European Chemicals Agency)
EEA EEA (European Environment Agency)
EPA EPA (Environmental Protection Agency)

ERMA (New Zealands Environmental Risk Management Authority)

ECOSARS Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

FDA FDA (Food & Drug Administration)

GESTIS GESTIS (Information System on Hazardous Substances of the German Social Accident

Insurance)

HSDB (Hazardous Substances Data Bank)

INERIS INERIS (The National Industrial Environment and Risks Institute)
IPCS INCHEM IPCS INCHEM (International Programme on Chemical Safety)
IUCLID IUCLID (The International Uniform Chemical Information Database)
NITE Japan National Institute of Technology and Evaluation (NITE)

NIH (National Institutes of Health)

NIOSH NIOSH (National Institute for Occupational Safety and Health)
LOLI LOLI (List of Lists - An International Chemical Regulatory Database)

NDF no data

NICNAS Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH IDLH Immediately Dangerous to Life or Health

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEEN (Pan European Ecological Network)

RTECS RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS SIDS (Screening Information Dataset) for High Volume Chemicals

SYKE The Finnish Environment Institute (SYKE)
USDA USDA (United States Department of Agriculture)

EN / AGHS Page 14/15

Version 1.7

Product Name Diphenylcarbazone Reagent

Revision Date 26-Jan-2024

Page 15 / 15

**USDC** USDC (United States Department of Commerce)

WHO WHO (World Health Organization)

## Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Maximum Allowable Concentration MAC Ceiling Ceiling Limit Value

Listed Χ Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

Skin designation Skin sensitization SKN\* SKN+ Respiratory sensitization Hazard Designation RSP+ Reproductive toxicant С Carcinogen R

mutagen M

Hach Product Compliance Department Prepared By

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**Revision Note** None

#### **Disclaimer**

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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**End of Safety Data Sheet** 

EN / AGHS Page 15/15