



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)  
 Canada Hazardous Products Regulations (SOR/2015-17)

Revision date 2-Jan-2023

Revision Number 5

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product group:** Steam Activated Granular Carbon; S-GAC

**Product names:**

DARCO® 12X20	NORIT® GAC 1240 EN	NORIT® GCN 1020	NORIT® RAX 1
DARCO® 12X40	NORIT® GAC 1240 EV	NORIT® GCN 1240	NORIT® RB 0.8 CC
DARCO® 20X40	NORIT® GAC 1240G	NORIT® GCN 1240 LC	NORIT® RB 1
DARCO® 4X12	NORIT® GAC 1240 PLUS	NORIT® GCN 1240 PLUS	NORIT® RB 2
DARCO® 4X12B	NORIT® GAC 1240 PLUS AQ	NORIT® GCN 1840	NORIT® RB 2 H2
DARCO® 8X30 A	NORIT® GAC 1240 PLUS N	NORIT® GCN 3070	NORIT® RB 3
	NORIT® GAC 1240 PLUS NR	NORIT® GCN 48	NORIT® RB 3 H2
DARCO® BG 1	NORIT® GAC 1240R	NORIT® GCN 48 R	NORIT® RB 3W
DARCO® BG 1P	NORIT® GAC 1240W	NORIT® GCN 610 G	NORIT® RB 30M
DARCO® BGH	NORIT® GAC 1240 XCT	NORIT® GCN 612 G	NORIT® RB 4
DARCO® H2S	NORIT® GAC 2442	NORIT® GCN 816 G	NORIT® RB 4C
DARCO® H2SG	NORIT® GAC 300	NORIT® GCN 830	NORIT® RB 4W
DARCO® H2S HF	NORIT® GAC 3040 AW	NORIT® GCN 830 PLUS	NORIT® RB 40M
DARCO® H2S LP	NORIT® GAC 400	NORIT® GCNY 1240	NORIT® RBW 1
DARCO® MRX	NORIT® GAC 400 PLUS	NORIT® GCNX 1840	NORIT® RBX 4C
	NORIT® GAC 410 AF		NORIT® R RMA
HYDRODARCO® 3000	NORIT® GAC -40R	NORIT® MRX-AF	NORIT® RO 0.8 C
HYDRODARCO® 4000	NORIT® GAC 40S		NORIT® RO 3515
HYDRODARCO® 820	NORIT® GAC 610	NORIT® NRS EA 3-4	NORIT® RO 3520
	NORIT® GAC 612WFD	NORIT® NRS GA 0.5-2.5	NORIT® ROW 0.8
NORIT® 830X	NORIT® GAC 818AW		NORIT® ROW 0.8 CAT
NORIT® 830WPLUS	NORIT® GAC 820	NORIT® PK 0.25-1	NORIT® ROW 0.8 SUPRA
NORIT® 1240X	NORIT® GAC 830	NORIT® PK 0.25-1 M	NORIT® ROW 0.8 SUPRA N
NORIT® CBI 367	NORIT® GAC 830 AF	NORIT® PK 0.25-1 NG	NORIT® ROX 0.8
NORIT® CBI 368	NORIT® GAC 830 EN	NORIT® PK 1-3	NORIT® ROX 0.8 T
NORIT® CUSTOM REACT	NORIT® GAC 830 PLUS	NORIT® PK 1-3 M	NORIT® ROX 0.8 TX
NORIT® DRK1	NORIT® GAC 830NR	NORIT® PK 2-4 M	NORIT® ROY 0.8
	NORIT® GAC 830R	NORIT® PK 3-5	NORIT® RST 3
NORIT® GAC 1020 AF	NORIT® GAC 830RL	NORIT® PK 3-5 M	NORIT® RST 4
NORIT® GAC 1020 EN	NORIT® GAC 830RS		NORIT® RX 1.5 EXTRA
NORIT® GAC 1030AW	NORIT® GAC 830W	NORIT® R 0.8 AGRU	NORIT® RX 3 EXTRA
NORIT® GAC 1070MP	NORIT® GAC 830WI	NORIT® R 0.8 EXTRA	NORIT® RX 4 EXTRA
NORIT® GAC 1240	NORIT® GAC 830W	NORIT® R 1 EXTRA	NORIT® RXS 1
NORIT® GAC 1240 A	NORIT® GAC 840R	NORIT® R 2030	
NORIT® GAC 1240 AF	NORIT® GAC H-2-12S	NORIT® R 2030 CO2	NORIT® SILREACT
NORIT® GAC 1240 AFMX		NORIT® R 2030W	NORIT® SoilPure 12x20
NORIT® GAC 1240AFX	NORIT® G 1220 EXTRA	NORIT® R 2040W	
NORIT® GAC 1240 AW	NORIT® G 1230 EXTRA	NORIT® R 2540W	
	NORIT® G 2040 EXTRA		

PETRODARCO® 4X10	SORBONORIT® 3	SORBONORIT® K 3	NORIT® VAPURE 410
PETRODARCO® 4X10N	SORBONORIT® 4	SORBONORIT® K 4	NORIT® VAPURE 610W
PETRODARCO® 8X30	SORBONORIT® B 3	SORBONORIT® K 4S	NORIT® VAPURE 612
PETRODARCO® 8X30 C	SORBONORIT® B 4	SORBONORIT® KB 3	
PETRODARCO® 8X30N	SORBONORIT® BX 3	SORBONORIT® KB 4	
PETRODARCO® MS	SORBONORIT® BX 4	SORBONORIT® X 4	

**Synonyms:** Activated Carbon

**Recommended use:** Liquid and vapor applications (purification, decolorization, separation, catalyst and deodorization)

**Restrictions on use:** No information available

**Supplier:** Norit Americas Inc.  
3200 West University Avenue  
Marshall, TX 75670  
United States  
Tel: 1-903-923-1000

**Emergency Telephone Number:** US: CHEMTREC: 1-800-424-9300 or 1-703-527-3887  
International CHEMTREC: +1 703-741-5970 or +1-703-527-3887

**2. HAZARDS IDENTIFICATION**

**Classification**

This product is not considered hazardous by either the US 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015)

**Label elements**

**Signal word**

None

**Hazard statements**

None

**Precautionary Statements - Prevention**

None

**Precautionary Statements - Response**

None

**Precautionary Statements - Storage**

None

**Precautionary Statements - Disposal**

None

**Other information**



## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use foam, carbon dioxide (CO <sub>2</sub> ), dry chemical or water spray. A fog is recommended if water is used.
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire. DO NOT USE high pressure media which could cause formation of a potentially explosible dust-air mixture. In the event of a fire, spreading large amounts of activated carbon is not recommended due to the risk of creating uncontrolled dust emissions.
<b>Specific hazards arising from the chemical</b>	<p>Burning produces irritant fumes. If transferring product under pressure, avoid generation of dust if an ignition source is present.</p> <p>Activated carbons have high surface area which may cause self-heating during oxidation. An adequate air gap between packages of activated carbon is recommended to reduce risk of propagation of the event. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame.</p>
<b>Hazardous combustion products</b>	Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air), Used activated carbon may produce additional combustion products which are based on the substance(s) adsorbed, Carbon monoxide, Carbon dioxide (CO <sub>2</sub> )
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	Dust can form an explosive mixture with air. Avoid generation of dust. Do not create a dust cloud by using a brush or compressed air. Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ground and bond containers when transferring material.
<b>Special protective equipment and precautions for fire-fighters</b>	In case of fire: Wear self-contained breathing apparatus. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment. See also Section 8.

### Environmental Precautions:

**Environmental Precautions:** No special environmental precautions required. Local authorities should be advised if significant spillages cannot be contained.

### 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:** Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. If the spilled material contains dust or has the potential to create dust, use explosion-proof vacuums and/or cleaning systems suitable for combustible dusts. Use of a vacuum with high efficiency particulate air (HEPA) filtration is recommended. Do not create a dust cloud by using a brush or compressed air. Pick up and transfer to properly labelled containers. Spent granular activated carbon may be recyclable. Dispose of virgin (unused) carbon (surplus or spillage) in a facility permitted for non-hazardous wastes. Spent (used) carbon should be disposed of in accordance with applicable laws. Do not reuse empty bags: dispose of in a facility permitted for non-hazardous wastes. See Section 13.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin and eyes. Avoid generation of dust. Do not breathe dust. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated. Do not create a dust cloud by using a brush or compressed air. Dust can form an explosive mixture with air.

Activated carbons have high surface area which may cause self-heating during oxidation. Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations. Fine dust is capable of penetrating electrical equipment and may cause electrical shorts. If hot work (welding, torch cutting, etc.) is required the immediate work area must be cleared of product and dust.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from sources of ignition - No smoking. Do not store together with strong oxidizing agents. Do not store together with volatile chemicals as they may be adsorbed onto product. Keep in properly labeled containers. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosible mixture if they are released in the atmosphere in sufficient concentrations. Prior to entering a confined space that contains or previously contained activated carbon, the space should be evaluated for oxygen and carbon monoxide concentrations, and any other hazards, by a qualified person.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Limits** Exposure limits for components or similar components are stated below.

Chemical name	Quartz (respirable) 14808-60-7
ACGIH TLV	TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter
OSHA PEL	TWA: 50 µg/m <sup>3</sup>

	(vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust
Alberta	TWA: 0.025 mg/m <sup>3</sup> respirable particulate
British Columbia	TWA: 0.025 mg/m <sup>3</sup> respirable
Ontario	TWA: 0.10 mg/m <sup>3</sup> respirable fraction
Quebec	TWA: 0.1 mg/m <sup>3</sup> respirable dust
Chemical name	Dust, or particulates not otherwise specified RR-00072-6
ACGIH TLV	TWA: 10 mg/m <sup>3</sup> inhalable particles, recommended TWA: 3 mg/m <sup>3</sup> respirable particles, recommended
OSHA PEL	TWA: 15 mg/m <sup>3</sup> total dust; 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust; 5 mg/m <sup>3</sup> respirable fraction
Alberta	TWA: 10 mg/m <sup>3</sup> total; 3 mg/m <sup>3</sup> respirable
British Columbia	TWA: 10 mg/m <sup>3</sup> total dust; 3 mg/m <sup>3</sup> respirable fraction
Ontario	TWA: 10 mg/m <sup>3</sup> inhalable fraction; 3 mg/m <sup>3</sup> respirable fraction
Quebec	TWA: 10 mg/m <sup>3</sup> total dust

MAK: Maximale Arbeitsplatzkonzentration (Maximum Workplace Concentration)

NGV: Nivå Gräns Värde (Level Limit Value)

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TRGS: Technische Regeln für Gefahrstoffe (Technical Rule for Hazardous Materials)

TWA: Time Weighted Average

US ACGIH: United States American Conference of Governmental Industrial Hygienists

US OSHA: United States Occupational Safety and Health Administration

VLA: Valore Limite Ambientales (Environmental Limit Value)

WEL: Workplace Exposure Limit

**Engineering Controls:** Ensure adequate ventilation to maintain exposures below occupational limits. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated.

**Personal protective equipment [PPE]**

**Respiratory Protection:** Approved respirator may be necessary if local exhaust ventilation is not adequate.

**Hand Protection:** Wear suitable gloves.

**Eye/face Protection:** Wear eye/face protection. Wear safety glasses with side shields (or goggles).

**Skin and Body Protection:** Wear suitable protective clothing. Wash clothing daily. Work clothing should not be allowed out of the workplace.

**Other:** Handle in accordance with good industrial hygiene and safety practice. Emergency eyewash and safety shower should be located nearby.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

*Information given is based on data obtained from this substance or from similar substances*

**Information on basic physical and chemical properties**

**Physical state** Solid  
**Appearance** Granular  
**Color** black  
**Odor** Generally odorless. May produce slight sulfur smell when wet.

**Odor threshold** Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		Not applicable
Melting point / freezing point		Not applicable
Boiling point / boiling range		Not applicable
Flash point		Not applicable
Evaporation rate		Not applicable
Flammability (solid, gas)	Not flammable	
Flammability Limit in Air		Not applicable
Vapor pressure		Not applicable
Relative vapor density		Not applicable
Relative density		No data available
Water solubility	insoluble	@ 20 °C, OECD 105
Solubility in other solvents		Not applicable
Partition coefficient		Not applicable
Autoignition temperature		No data available
Decomposition temperature		Not applicable
Kinematic viscosity		Not applicable
Dynamic viscosity		Not applicable
<b><u>Other information</u></b>		
Explosive properties		Not applicable
Oxidizing properties		Not applicable
Bulk density	18 - 37 lbs/ft <sup>3</sup>	

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	May react exothermically upon contact with strong oxidizers.
<b>Chemical stability</b>	Stable under normal conditions. Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	dust formation. Keep away from heat. Eliminate sources of ignition. Activated carbon (especially when wet) can deplete oxygen from air in enclosed spaces, and dangerously low levels of oxygen may result.  Activated carbons have high surface area which may cause self-heating during oxidation.
<b>Incompatible materials</b>	Strong oxidizing agents, Strong acids
<b>Hazardous decomposition products</b>	Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air), Used activated carbon may produce additional combustion products which are based on the substance(s) adsorbed, Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

*Information given is based on data on activated carbon unless otherwise specified.*

<b>Acute toxicity</b>	Not classified.
<b>Oral LD50:</b>	LD50/oral/rat = >2000 mg/kg. (OECD 423).
<b>Inhalation LC50:</b>	LC50/inhalation/1h/rat = >8.5 mg/L (OECD 403).
<b>Dermal LD50:</b>	Absorption highly unlikely, no health effects known.
<b>Skin corrosion/irritation:</b>	Not classified Skin irritation test, rabbit (OECD 404): Not irritating
<b>Serious eye damage/eye irritation:</b>	Not classified. Eye irritation test, rabbit (OECD 405): Not irritating.
<b>Sensitization:</b>	Not classified. Not sensitizing based on Local Lymph Node Assay (OECD 429).
<b>Mutagenicity:</b>	Not classified. - Gene mutation in bacteria (Bacterial Reverse Mutation Assay/Ames) (OECD 471): not mutagenic. - In vitro Mammalian Chromosome Aberration Test (OECD 473): not clastogenic. - In vitro Mammalian Cell Gene Mutation Test (OECD 476): non-mutagenic.
<b>Carcinogenicity</b>	Not classified.  Contains a component (crystalline silica) that is listed by IARC as group 1, by ACGIH as group A2, and by NTP as a known human carcinogen. However, these warnings refer to crystalline silica dust and not to naturally occurring bound crystalline silica in solid activated carbon. This product contains <1% respirable crystalline silica. Therefore, Norit has not classified this product as a carcinogen in accordance with the US OSHA Hazard Communication Standard (29 CFR §1910.1200).
<b>Reproductive Toxicity:</b>	Not classified. Repeated dose inhalation toxicity test showed no reproductive target organ effects, and a toxicokinetic study showed no product migration to reproductive organs.
<b>STOT - single exposure:</b>	Not classified.
<b>STOT - repeated exposure:</b>	Not classified. Repeated dose toxicity study, inhalation (rat) 90 days (OECD 413): NOAEC 7.29 mg/m <sup>3</sup> (respirable). This test was conducted on activated carbon containing negligible crystalline silica; therefore activated carbon itself is not classified for STOT-RE. Although respirable crystalline silica is classified as STOT-RE1, this product contains <1% respirable crystalline silica, therefore it is not classified for STOT-RE.
<b>Target organ effects</b>	Lungs, Eyes, Skin
<b>Aspiration Hazard:</b>	Based on industrial experience and available data, no aspiration hazard is expected.
<b>Other adverse effects</b>	No information available.

## 12. ECOLOGICAL INFORMATION

*Information given is based on data obtained from this substance or from similar substances*

<b>Ecotoxicity</b>	Non toxic. The substance is highly insoluble in water and the substance is unlikely to cross biological membranes. No adverse ecological effects are known.
<b>Persistence and degradability</b>	Not expected to degrade.



<b>Bioaccumulation</b>	Not expected due to physicochemical properties of the substance.
<b>Mobility</b>	Not expected to migrate. Insoluble.
<b>Other adverse effects</b>	No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

<b>Waste from residues/unused products</b>	<p>Activated carbon, in its original state, is not a hazardous material or hazardous waste. Follow applicable regulations for waste disposal.</p> <p>Spent (used) activated carbon may be classified as a hazardous waste depending upon its use, the substance(s) adsorbed, and how it is ultimately managed. Follow applicable regulations for disposal.</p> <p>Recycling (reactivation) may be a viable alternative to disposal. Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles.</p>
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<b>Contaminated packaging</b>	Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.
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<b>US EPA Waste Number</b>	<p>Unused product is not a hazardous waste under U.S. RCRA, 40 CFR 261</p> <p>Spent (used) product may be hazardous based on the substance adsorbed</p>
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**14. TRANSPORT INFORMATION**

**Note:** This activated carbon product is made by a steam activation process.

Not classified as dangerous in the meaning of transport regulations.

<b><u>DOT</u></b>	Not regulated
<b><u>TDG</u></b>	Not regulated
<b><u>MEX</u></b>	Not regulated
<b><u>ICAO (air)</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b><u>IMDG</u></b>	Not regulated
<b><u>RID</u></b>	Not regulated
<b><u>ADR</u></b>	Not regulated
<b><u>ADN</u></b>	Not regulated

**15. REGULATORY INFORMATION**

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

**International Inventories**

<b>TSCA</b>	Complies
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Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Activated Carbon	7440-44-0	Present	Active

<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>TCSI</b>	Complies
<b>NZIoC</b>	Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**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

**AICS** - Australian Inventory of Chemical Substances

**TCSI** - Taiwan Chemical Substance Inventory

**NZIoC** - New Zealand Inventory of Chemicals

**US Federal Regulations****TSCA Section 12(b) Export Regulations**

This product does not contain any components that are subject to TSCA 12(b) Export Notification.

**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**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**Clean Air Act Amendments of 1990 (CAA, Section 112, 40 CFR 82)**

This product does not contain any components listed as a Hazardous Air Pollutant, Flammable Substance, Toxic Substance, or Class 1 or 2 Ozone Depletor.

**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).

**US State Regulations**

**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.

**California Proposition 65**

- This product contains the following Proposition 65 chemicals:
- “Silica, crystalline (airborne particles of respirable size)”. Activated carbon, which is manufactured from a naturally occurring raw material(s), contains a low level of crystalline silica. Please note that all listing qualifiers (airborne and respirable size (10 micrometers or less in diameter)) must be met for the crystalline silica in this product to be considered a Proposition 65 substance.
- Certain metals, including arsenic, cadmium, lead, mercury, or nickel, may be present at low concentrations on and/or in activated carbon and are California Proposition 65 listed substances.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Quartz (respirable) 14808-60-7	X	X	X

**16. OTHER INFORMATION**

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

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Key literature references and sources for data used to compile the SDS**

- Agency for Toxic Substances and Disease Registry (ATSDR)
- U.S. Environmental Protection Agency ChemView Database
- European Food Safety Authority (EFSA)
- EPA (Environmental Protection Agency)
- Acute Exposure Guideline Level(s) (AELG(s))
- U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
- U.S. Environmental Protection Agency High Production Volume Chemicals
- Food Research Journal

Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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**Prepared by:** Norit B.V. - Safety, Health and Environmental Affairs  
**Revision date:** 2-Jan-2023

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**End of Safety Data Sheet**