malko.

SAFETY DATA SHEET

1. Identification

Product identifier EPIC SHIELD+ SiO2 WATERLESS WASH & WAX WITH GRAPHENE

Other means of identification

Product Code 2620

Recommended use Vehicle Wash
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Malco Products, Inc.
Address 361 Fairview Ave
Barberton, OH 44203

United States

Telephone Phone 800-253-2526

Fax 330-753-2025

Website www.malcopro.com
E-mail msdsinfo@malcopro.com
Contact person Technical Department

Emergency phone number Phone 1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2A

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes serious eye irritation.

Precautionary statement

Prevention Wash thoroughly after handling. Wear eye protection/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 2.95% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 2.95% of the mixture consists of component(s) of unknown long-term hazards to the

aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-[3-(dodecanoylamino)propyl-din hylazaniumyl]acetate	net	61789-40-0	< 0.3
N,N-dimethyldodecan-1-amine oxide		1643-20-5	< 0.3
(2E)-3,7-dimethylocta-2,6-dienal		5392-40-5	< 0.1

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Chemical name	Common name and synonyms	CAS number	%
1-[2-[2-hydroxy-3-(propylamino)propoxy]phenyl]-3-phenylpropan-1-one		8002-74-2	< 0.1
Edge Functional Graphene		7782-42-5	< 0.1
Ethylene Glycol Monobutyl Ether		111-76-2	< 0.1
Other components below reportable	e levels		90 - 100

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects acute and

symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Move containers from fire area if you can do so without risk.

equipment/instructions
Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handlingAvoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Ethylene Glycol Monobutyl		Type PEL			240 mg/m3	
Ether (CAS 111-76-2)		I LL			· ·	
UC OCUA Table 7.2 Dame	iaaibla Evraasuu	. !!4.	(DEL) for Minor		50 ppm	
US. OSHA Table Z-3 Perm Components	issible Exposure	Type	S (PEL) for Wilne	•	Value	
Edge Functional Graphene (CAS 7782-42-5)		TWA			15 mppcf	
US. ACGIH Threshold Lim Components	nit Values (TLV)	Туре			Value	Form
(2E)-3,7-dimethylocta-2,6-d enal (CAS 5392-40-5)	i	TWA			5 ppm	Inhalable fraction and vapor.
1-[2-[2-hydroxy-3-(propylam no)propoxy]phenyl]-3-pheny propan-1-one (CAS 8002-74-2)		TWA			2 mg/m3	Fume.
Edge Functional Graphene (CAS 7782-42-5)		TWA			2 mg/m3	Respirable fraction.
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)		TWA			20 ppm	
NIOSH. Immediately Dang Components	erous to Life or	Health Type	(IDLH) Values, a		Value	
Edge Functional Graphene (CAS 7782-42-5)		IDLH			1250 mg/m3	
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)		IDLH			1.1 %	
,					700 ppm	
US. NIOSH: Pocket Guide Components	to Chemical Haz	ards R Type	ecommended E	-	s (REL) Value	Form
1-[2-[2-hydroxy-3-(propylam no)propoxy]phenyl]-3-pheny propan-1-one (CAS 8002-74-2)		TWA			2 mg/m3	Fume.
Edge Functional Graphene (CAS 7782-42-5)		TWA			2.5 mg/m3	Respirable.
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)		TWA			24 mg/m3	
(UNU 111-10-2)					5 ppm	
Euror (OAO 111-10-2)						
ogical limit values				Specimen	Sampling	Time
	re Indices (BEI) Value		Determinant			
ogical limit values ACGIH Biological Exposu	Value		Butoxyacetic acid (BAA), with hydrolysis	Creatinine urine	in *	
ogical limit values ACGIH Biological Exposu Components Ethylene Glycol Monobutyl	Value 200 mg/g		Butoxyacetic acid (BAA), with hydrolysis		in *	
ogical limit values ACGIH Biological Exposur Components Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	Value 200 mg/g	ce docu	Butoxyacetic acid (BAA), with hydrolysis		in *	
ogical limit values ACGIH Biological Exposur Components Ethylene Glycol Monobutyl Ether (CAS 111-76-2) * - For sampling details, ple	Value 200 mg/g case see the source	ce docu	Butoxyacetic acid (BAA), with hydrolysis ment.	urine	""	
ogical limit values ACGIH Biological Exposur Components Ethylene Glycol Monobutyl Ether (CAS 111-76-2) * - For sampling details, ple osure guidelines US - California OELs: Skir Ethylene Glycol Monob US - Minnesota Haz Subs:	Value 200 mg/g ase see the source a designation butyl Ether (CAS 1) Skin designatio	111-76-2 n appli	Butoxyacetic acid (BAA), with hydrolysis iment.	urine ne absorbed thi	ough the skin.	
ogical limit values ACGIH Biological Exposur Components Ethylene Glycol Monobutyl Ether (CAS 111-76-2) * - For sampling details, ple osure guidelines US - California OELs: Skir Ethylene Glycol Monob US - Minnesota Haz Subs: Ethylene Glycol Monob US - Tennessee OELs: Sk	Value 200 mg/g case see the source designation outyl Ether (CAS 1 Skin designatio outyl Ether (CAS 1 in designation	111-76-2 n appli 111-76-2	Butoxyacetic acid (BAA), with hydrolysis ament. 2) Can bes 2) Skin c	urine be absorbed thi	rough the skin. blies.	
pogical limit values ACGIH Biological Exposur Components Ethylene Glycol Monobutyl Ether (CAS 111-76-2) * - For sampling details, ple psure guidelines US - California OELs: Skir Ethylene Glycol Monob US - Minnesota Haz Subs: Ethylene Glycol Monob	Value 200 mg/g case see the source designation outyl Ether (CAS 1 in designation outyl Ether (CAS 1 in designation outyl Ether (CAS 1 outyl Ether (CAS 1	111-76-2 n appli 111-76-2	Butoxyacetic acid (BAA), with hydrolysis ament. 2) Can bes 2) Skin c	urine be absorbed thi	ough the skin.	
ogical limit values ACGIH Biological Exposu Components Ethylene Glycol Monobutyl	Value		Butoxyacetic acid (BAA),		in *	

Can be absorbed through the skin.

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance Milky.
Physical state Liquid.
Form Liquid.
Color Dark grey
Odor Lemon

Odor threshold Not available.

pH 6.2

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point >145.0 °F (>62.8 °C)

Evaporation rate Not available. **Flammability (solid, gas)** Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density8.29 lb/galExplosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.VOC0.19 %

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials. Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

No adverse effects due to skin contact are expected. Skin contact

Eve contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

toxicological characteristics

Information on toxicological effects

Acute toxicity Not known.

Components Species **Test Results**

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

Acute

Dermal

LD50 Rabbit 400 mg/kg

Oral

LD50 Rat 470 mg/kg

N,N-dimethyldodecan-1-amine oxide (CAS 1643-20-5)

Acute

Oral

LD50 Rat > 20 g/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

ACGIH sensitization

Citral, inhalable fraction and vapor (CAS 5392-40-5) Dermal sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylene Glycol Monobutyl Ether (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure **Aspiration hazard**

Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

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^{*} Estimates for product may be based on additional component data not shown.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

Aquatic

Acute

Fish LC50 Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

(2E)-3,7-dimethylocta-2,6-dienal3.45Ethylene Glycol Monobutyl Ether0.83N,N-dimethyldodecan-1-amine oxide4.67

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910,1200.

Toxic Substances Control Act (TSCA)

One or more components of the mixture are not on the TSCA 8(b) inventory

or are designated "inactive".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not established.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard

categories

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

16. Other information, including date of preparation or last revision

 Issue date
 10-16-2023

 Revision date
 10-16-2023

Version # 02

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Malco Products, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or

expense due to improper use.

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).