

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)
SDS Reference Number: 31178
Issue date: 3/4/2025 Version: 1.0

SECTION 1 Identification**1.1. Product identifier**

Product form : Mixture
Product name : Motivity Ceramic Protectant

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

No additional information available

1.4. Supplier's details

Motivity
900 Mendelssohn Ave N
Golden Valley, MN, 55427
USA
T 800-636-7990

1.5. Emergency phone number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2 Hazard Identification**2.1. Classification of the substance or mixture****GHS US classification**

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs through prolonged or repeated exposure.

Full text of H statements : see section 16

2.2. Label elements**GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H315 - Causes skin irritation
H318 - Causes serious eye damage
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US)

: P260 - Do not breathe dust, fume, gas, mist, vapours, spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves.
P302+P352 - If on skin: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a poison center or doctor.

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P314 - Get medical advice or attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
2-BUTOXYETHANOL	CAS-No.: 111-76-2	1 – 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
DIETHYLENE GLYCOL	CAS-No.: 111-46-6	1 – 10	STOT RE 2, H373
1H-IMIDAZOLIUM, 1-ETHYL-2-(8-HEPTADECEN-1-YL)-4,5-DIHYDRO-3-	CAS-No.: 68039-12-3	0.5 – 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
DOCUSATE SODIUM	CAS-No.: 577-11-7	0.5 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318

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

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : None under normal conditions.
Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : None under normal conditions.

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4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.
Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

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SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including incompatibilities

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Keep cool. Protect from sunlight.
Packaging materials	: Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

2-BUTOXYETHANOL (111-76-2)

Local name	2-Butoxyethanol (EGBE)
ACGIH OEL TWA	20 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2023
Local name	2- BUTOXYETHANOL
BEI (BLV)	200 mg/g Kreatinin Parameter: Butoxyacetic acid (BAA) (with hydrolysis) - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2023
Local name	2-Butoxyethanol
OSHA PEL TWA	240 mg/m³ 50 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

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Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: Green
Odor	: Fresh
Odor threshold	: No data available
pH	: 5.5 – 8
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.002 @ 15.6 °C
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

COMP - 1H-IMIDAZOLIUM, 1-ETHYL-2-(8-HEPTADECEN-1-YL)-4,5-DIHYDRO-3-

Particle characteristics	No data available
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COMP - DOCUSATE SODIUM

Particle characteristics	No data available
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COMP - 2-BUTOXYETHANOL

Particle characteristics	No data available
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COMP - DIETHYLENE GLYCOL

Particle characteristics	No data available
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9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

DOCUSATE SODIUM (577-11-7)

LD50 dermal rabbit	> 10000 mg/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Dermal)
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2-BUTOXYETHANOL (111-76-2)

LD50 oral	1414 mg/kg body weight Animal: guinea pig, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1020 - 1961
LD50 dermal rat	> 2000 mg/kg Source: ECHA
ATE US (oral)	1414 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

DIETHYLENE GLYCOL (111-46-6)

LD50 dermal rabbit	11890 mg/kg (Rabbit, Dermal)
LC50 Inhalation - Rat	> 4.6 mg/l air (Other, 4 h, Rat, Weight of evidence, Inhalation (mist))
ATE US (oral)	19600 mg/kg body weight

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DIETHYLENE GLYCOL (111-46-6)	
ATE US (dermal)	11890 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.
pH: 5.5 – 8

DIETHYLENE GLYCOL (111-46-6)	
pH	5 – 8 (50 %)

Serious eye damage/irritation : Causes serious eye damage.
pH: 5.5 – 8

DIETHYLENE GLYCOL (111-46-6)	
pH	5 – 8 (50 %)

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

2-BUTOXYETHANOL (111-76-2)	
IARC group	3 - Not classifiable

DIETHYLENE GLYCOL (111-46-6)	
NOAEL (chronic,oral,animal/male,2 years)	1210 mg/kg body weight Animal: rat, Animal sex: male
NOAEL (chronic,oral,animal/female,2 years)	1160 mg/kg body weight Animal: rat, Animal sex: female

Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

DOCUSATE SODIUM (577-11-7)	
NOAEL (oral, rat, 90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)

2-BUTOXYETHANOL (111-76-2)	
NOAEL (dermal, rat/rabbit, 90 days)	> 150 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

DIETHYLENE GLYCOL (111-46-6)	
LOAEL (oral, rat, 90 days)	40000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Motivity Ceramic Protectant	
Viscosity, kinematic	No data available

1H-IMIDAZOLIUM, 1-ETHYL-2-(8-HEPTADECEN-1-YL)-4,5-DIHYDRO-3- (68039-12-3)	
Viscosity, kinematic	No data available

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1H-IMIDAZOLIUM, 1-ETHYL-2-(8-HEPTADECEN-1-YL)-4,5-DIHYDRO-3- (68039-12-3)	
DOCUSATE SODIUM (577-11-7)	
Viscosity, kinematic	No data available
2-BUTOXYETHANOL (111-76-2)	
Viscosity, kinematic	No data available
DIETHYLENE GLYCOL (111-46-6)	
Viscosity, kinematic	33 mm²/s (20 °C)
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: None under normal conditions.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

DOCUSATE SODIUM (577-11-7)	
LC50 - Fish [1]	49 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	10.3 mg/l (Equivalent or similar to EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	82.5 mg/l (Equivalent or similar to EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
2-BUTOXYETHANOL (111-76-2)	
LC50 - Fish [1]	1474 mg/l Source: ECHA
EC50 - Crustacea [1]	1800 mg/l Source: ECHA
EC50 72h - Algae [1]	911 mg/l Source: ECHA
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'
DIETHYLENE GLYCOL (111-46-6)	
LC50 - Fish [1]	> 5000 ppm (24 h, Carassius auratus)
EC50 - Crustacea [1]	> 10000 mg/l (24 h, Daphnia magna)
LC50 - Fish [2]	75200 mg/l (Other, 96 h, Pimephales promelas, Flow-through system, Experimental value)
EC50 - Crustacea [2]	> 10000 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 96h - Algae [1]	9362 mg/l (ECOSAR, Algae, QSAR)
EC50 96h - Algae [2]	9362 mg/l Test organisms (species): other:

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DIETHYLENE GLYCOL (111-46-6)	
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysisidopsis bahia) Duration: '23 d'

12.2. Persistence and degradability

Motivity Ceramic Protectant	
Persistence and degradability	Not rapidly degradable
1H-IMIDAZOLIUM, 1-ETHYL-2-(8-HEPTADECEN-1-YL)-4,5-DIHYDRO-3- (68039-12-3)	
Persistence and degradability	Not rapidly degradable
DOCUSATE SODIUM (577-11-7)	
Persistence and degradability	Readily biodegradable in water.
2-BUTOXYETHANOL (111-76-2)	
Persistence and degradability	Not rapidly degradable
DIETHYLENE GLYCOL (111-46-6)	
Persistence and degradability	Biodegradable in the soil, Biodegradable in water.
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance
Chemical oxygen demand (COD)	1.51 g O ₂ /g substance
ThOD	1.51 g O ₂ /g substance
BOD (% of ThOD)	0.015

12.3. Bioaccumulative potential

DOCUSATE SODIUM (577-11-7)	
BCF - Fish [1]	0.9 – 9.3 (Cyprinus carpio, Test duration: 6 weeks)
Partition coefficient n-octanol/water (Log Pow)	1.998 (Calculated, EU Method A.8: Partition Coefficient, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2-BUTOXYETHANOL (111-76-2)	
Partition coefficient n-octanol/water (Log Pow)	0.81 Source: ECHA
DIETHYLENE GLYCOL (111-46-6)	
BCF - Fish [1]	100 (Other, 3 day(s), Leuciscus melanotus, Static system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-1.98 (Calculated, Other)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

DOCUSATE SODIUM (577-11-7)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.979 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Low potential for adsorption in soil.

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DIETHYLENE GLYCOL (111-46-6)

Surface tension	0.0485 N/m
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

Ozone : Not classified
Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT

14.1. UN number

UN-No.(DOT) : Not regulated

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT
Not regulated

SECTION 15 Regulatory information

15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

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Name	CAS-No.	Listing	Commercial status	Flags
1H-IMIDAZOLIUM, 1-ETHYL-2-(8-HEPTADECEN-1-YL)-4,5-DIHYDRO-3-	68039-12-3	Present	Active	
DOCUSATE SODIUM	577-11-7	Present	Active	
2-BUTOXYETHANOL	111-76-2	Present	Active	
DIETHYLENE GLYCOL	111-46-6	Present	Active	

15.2. International regulations

CANADA

1H-IMIDAZOLIUM, 1-ETHYL-2-(8-HEPTADECEN-1-YL)-4,5-DIHYDRO-3- (68039-12-3)

Listed on the Canadian DSL (Domestic Substances List)

DOCUSATE SODIUM (577-11-7)

Listed on the Canadian DSL (Domestic Substances List)

2-BUTOXYETHANOL (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

DIETHYLENE GLYCOL (111-46-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

DOCUSATE SODIUM (577-11-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

2-BUTOXYETHANOL (111-76-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

DIETHYLENE GLYCOL (111-46-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

No additional information available

SECTION 16 Other information

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Full text of hazard classes and H-statements	
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure

Hazard Rating

Flammability : 0 Minimal Hazard - Materials that will not burn

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.