FORCE FIELD

RUST INHIBITOR

SAFETY DATA SHEET (SDS)

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SECTION 1: Identification

1.1 GHS Product identifier

Product name	KoatGuard Force Field
Product number	KGFF

1.3 Recommended use of the chemical and restrictions on use

Inhibits the formation of rust for up-to 72 hours in suitable storage conditions on clean, bare metal.

1.4 Supplier's details

Name	KoatGuard Chemicals
Address	12683 McIllwain Rd Holladay, TN 38341 United States
Telephone	931-388-7730

1.5 Emergency phone number (Poison Control)

1-800-222-1222

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2012)

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Triethanolamine

Concentration	> 1 % (volume)
EC no.	203-049-8
CAS no.	102-71-6

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
	Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4.2 Most important symptoms/effects, acute and delayed

No data available.

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

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
No data available.

5.2 Specific hazards arising from the chemical
No data available.

5.3 Special protective actions for fire-fighters
No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8

6.2 Environmental precautions
No data available.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Triethanolamine (CAS: 102-71-6 EC: 203-049-8)
PEL (Inhalation): 5 mg/m3; US (Cal/OSHA)
California permissible exposure limits for chemical contaminants (Title 8, Article 107)
TWA (Inhalation): 5 mg/m3; AU (AU/SWA)

8.2 Appropriate engineering controls equipment

General industrial hygiene practice.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Use equipment for eye protection tested and
approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Distribution, Workplace and Household Settings: No special protective equipment required. Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Protective gloves.

Respiratory protection

Distribution, Workplace and Household Settings: No special protective equipment required. Product Manufacturing Plant (needed at Product-Producing Plant ONLY): In case of insufficient ventilation wear suitable respiratory Equipment

Thermal hazards
No data available.

Control banding approach
No data available.

Environmental exposure controls
No data available.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	No data available.
Odor	No data available.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.

Additional properties

Physical state	Liquid
Color	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Particle characteristics
No data available.

Supplemental information regarding physical hazard classes
No data available.

Further safety characteristics (supplemental)
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
None under normal use conditions.

10.4 Conditions to avoid
None under normal use conditions.

10.5 Incompatible materials

Triethanolamine: Acids, Oxidizing agents

10.6 Hazardous decomposition products

Triethanolamine: Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
No data available.

Skin corrosion/irritation
No data available.

Serious eye damage/irritation
No data available.

Respiratory or skin sensitization
No data available.

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available.

Reproductive toxicity
No data available.

Summary of evaluation of the CMR properties
No data available.

Specific target organ toxicity (STOT) - single exposure
No data available

Specific target organ toxicity (STOT) - repeated exposure
No data available.

Aspiration hazard
No data available.

Additional information

No data available

SECTION 12: Ecological information

No data available on product

SECTION 13: Disposal considerations

Disposal methods
No data available.

SECTION 14: Transport information

DOT (US)
UN Number:
Class:
Packing Group:
Proper Shipping Name:
Reportable quantity (RQ):
Marine pollutant:
Poison inhalation hazard:

IMDG
UN Number:
Class:
Packing Group:
EMS Number:
Proper Shipping Name:

IATA
UN Number:
Class:
Packing Group:
Proper Shipping Name:

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Pennsylvania Right To Know Components
Chemical name: ETHANOL, 2,2',2''-
NITRILOTRIS-
CAS number: 102-71-6

SARA 302 Components
No chemicals in this material [Triethanolamine]
are subject to the reporting requirements of
SARA Title III, Section
302.

SARA 313 Components
This material [Triethanolamine] does not contain
any chemical components with known CAS
numbers that exceed
the threshold (De Minimis) reporting levels
established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard for: Triethanolamine.

Canadian Domestic Substances List (DSL)
Chemical name: Ethanol, 2,2',2''-nitrilotris-
CAS number: 102-71-6

US EPA TSCA public inventory
Chemical name: Triethanolamine
CAS number: 102-71-6

Massachusetts Right To Know Components
(105 CMR 670)
Chemical name: TRIETHANOLAMINE
CAS number: 102-71-6

SECTION 16: Other information