

# **SAFETY DATA SHEET**

Revision Number 10.2 SDS No. 900 NGHS / English

# 1. IDENTIFICATION

**Product identifier** 

Product Name METALGUARD® G5

Heavy-duty conventional antifreeze additive package for use in Gas Field service

Other means of identification

Product Code(s) G5ND

Recommended use of the chemical and restrictions on use

Recommended Use Industrial, manufacturing, or laboratory use

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Identification WEBA TECHNOLOGY

Address NFS CAP WEBA, LLC

900 Cummings Center, Suite 226-U Beverly, Massachusetts 01915 USA

**Telephone** Phone: 1-681-265-2314 or 1-608-819-8806

Fax: 608-237-2054

E-mail info@webacorp.com

Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)

1-800-424-9300 (NORTH AMERÌCA)

# 2. HAZARDS IDENTIFICATION

### Classification

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

### GHS Label elements, including precautionary statements

**Danger** 

#### **Hazard statements**

Causes severe skin burns and eye damage



#### **Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dusts or mists

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

Wash contaminated clothing before reuse

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

Do NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other information

Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not Available

### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Sodium nitrite	7632-00-0	10-30	-	-
Sodium Benzoate	532-32-1	2-5	-	-
Sodium Tolyltriazole	64665-57-2	5-15	-	-

Sodium Borate	12179-04-3	2-7	-	-
Potassium Hydroxide	1310-58-3	<1	-	-

# 4. FIRST AID MEASURES

First aid measures

**General advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

advice/attention.

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

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin contact Get immediate medical advice/attention. Wash off immediately with soap and plenty of

water for at least 15 minutes.

**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 immediate medical

advice/attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood

pressure may occur with moist rales, frothy sputum, and high pulse pressure.

5. FIRE-FIGHTING MEASURES

surrounding environment.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the** The product causes burns of eyes, skin and mucous membranes. Thermal decomposition

**chemical** can lead to release of irritating gases and vapors.

**Hazardous Combustion Products** Nitrogen oxides (NOx). Sodium oxides.

**Explosion Data** 

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

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

### Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate

ventilation. Use personal protective equipment as required. Evacuate personnel to safe

areas. Keep people away from and upwind of spill/leak.

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

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional Ecological Information.

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 Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated

clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

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

of children. Protect from moisture. Store locked up. Store away from other materials.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Borate 12179-04-3	STEL: 6 mg/m³ inhalable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 1 mg/m³

		TWA: 2 mg/m³ i particulate r					
Potassium Hydroxide 1310-58-3	Э	Ceiling: 2 m	ng/m³	(vacated)	Ceiling: 2 mg/m <sup>3</sup>		Ceiling: 2 mg/m <sup>3</sup>
Chemical name		Alberta	British C	Columbia	Ontario TWAE	V	Quebec
Sodium Borate 12179-04-3		ΓWA: 1 mg/m³ STEL: 3 ppm		2 mg/m³ 6 mg/m³	TWA: 2 mg/m STEL: 6 mg/m		TWA: 1 mg/m <sup>3</sup>
Potassium Hydroxide 1310-58-3	С	eiling: 2 mg/m <sup>3</sup>	Ceiling:	2 mg/m³	CEV: 2 mg/m <sup>2</sup>	3	Ceiling: 2 mg/m <sup>3</sup>

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992). See section 15 for national exposure control parameters.

### Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Face protection shield.

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing. Chemical resistant apron.

**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.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Physical and Chemical Properties**

Physical state Liquid
Appearance Clear
Odor Characteristic

**Color** Yellow to dark amber. Additive may darken over time.

Odor Threshold No information available

<u>Property</u>	<u>Values</u>	Remarks Method
pH	11.5-12.8	
Melting / freezing point	No data available	None known
Boiling point / boiling range	>100°C (>212°F)	None known
Flash Point	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	Not flammable	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	10 mmHg at 20°C (68°F)	None known
Vapor density	>2.0 (air = 1)	None known
Relative density	1.195-1.225 at 21°C (70°F)	

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Water Solubility
Completely soluble

Solubility(ies) No data available

Partition coefficient: n-octanol/water No data available

Autoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Dynamic viscosityNo data availableExplosive propertiesNo information availableOxidizing propertiesNo information available

Other Information

Softening Point

Molecular Weight

VOC Content (%)

Liquid Density

Particle Size

Particle Size Distribution

No information available

No information available

No information available

1.195-1.225 at 21°C (70°F)

No information available

No information available

# 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Conditions to avoid** Exposure to air or moisture over prolonged periods.

**Incompatible materials** Acids. Oxidizing agent.

Hazardous Decomposition Products Nitrogen oxides (NOx). Sodium oxides.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

None known

Pulmonary edema can be fatal.

**Eye contact** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Corrosive to the eyes and may cause severe damage including blindness.

Causes serious eye damage. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark

blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

# Information on toxicological effects

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing.

### Numerical measures of toxicity

### **Acute Toxicity**

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

Unknown acute toxicity Component Information

Potassium Hydroxide

No information available

Component information			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium nitrite	85 mg/kg ( Rat )	-	5.5 mg/L ( Rat ) 4 h
Sodium Benzoate	4070 mg/kg ( Rat )	-	-
Sodium Tolyltriazole	1980 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
Sodium Borate	2403 mg/kg ( Rat )	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

4070 mg/kg (Rat)

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Risk of serious damage to eyes.

Causes burns.

Respiratory or skin sensitization No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** Classification based on data available foringredients.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium nitrite	-	Group 2A	-	X
7632-00-0				

### Legend

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

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

X - Present

Reproductive toxicity Classification based on data available for ingredients. Contains a known or suspected

reproductive toxin.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical name Toxicity to Algae Toxicity to Fish Toxicity to Daphnia Magna (Water Microorganisms Flea) Sodium nitrite 96h LC50: = 2.3 mg/L (Pimephales promelas) 96h LC50: 0.4 - 0.6 mg/L (Oncorhynchus mykiss) 96h LC50: 0.092 - 0.13 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.19 mg/L (Oncorhynchus mykiss) 96h LC50: = 20 mg/L (Pimephales promelas) 96h LC50: 0.65 - 1 ma/L (Oncorhynchus mykišs) Sodium Benzoate 96h LC50: 420 - 558 EC50 = 500 mg/L 24 h48h EC50: < 650 mg/L mg/L (Pimephales promelas) 96h LC50: > 100 mg/L (Pimephales promelas) Potassium Hydroxide 96h LC50: = 80 mg/L (Gambusia affinis)

Persistence and Degradability

No information available.

### **Bioaccumulation**

Chemical name	Log Pow
Sodium nitrite	-3.7
Sodium Benzoate	-2.13
Potassium Hydroxide	0.83

Mobility

No information available.

Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

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** 

D002

### California Hazardous Waste Codes 122

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste	
Sodium nitrite	Toxic	
7632-00-0	Ignitable	
	Reactive	

Potassium Hydroxide	Corrosive
1310-58-3	

### 14. TRANSPORT INFORMATION

DOT

**UN-No**. UN1760

Proper Shipping Name CORROSIVE LIQUIDS, N.O.S.

Hazard Class
Packing Group

Description UN1760 CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE, SODIUM

Emergency Response Guide NITRITE), 8, II

Number 154

**TDG** 

Proper Shipping Name CORROSIVE LIQUIDS, N.O.S.

Description UN1760 CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE, SODIUM

NITRITE), 8, II

<u>MEX</u>

**UN-No.** UN1760

Proper Shipping Name CORROSIVE LIQUIDS, N.O.S.

Hazard Class 8
Packing Group |

Description UN1760 CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE, SODIUM

NITRITE), 8, II

**ICAO** 

**UN-No.** UN1760

Proper Shipping Name CORROSIVE LIQUIDS, N.O.S.

Hazard Class 8
Packing Group

Description UN1760 CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE, SODIUM

NITRITE), 8, II

<u>IATA</u>

Proper Shipping Name CORROSIVE LIQUID, N.O.S.

ERG Code 81

**Description** UN1760 CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE, SODIUM

NITRITE), 8, II

IMDG/IMO

**UN-No.** UN1760

Proper Shipping Name CORROSIVE LIQUIDS, N.O.S.

Hazard Class 8
Packing group II
EmS-No. F-A, S-B

Description UN1760 CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE, SODIUM

NITRITE), 8, II

**RID** 

**UN-No.** UN1760

Proper Shipping Name CORROSIVE LIQUIDS, N.O.S.

Hazard Class 8
Packing Group II
Classification code C9

Description UN1760 CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE, SODIUM

ADR/RID-Labels NITRITE), 8, II

ADR

**UN-No.** UN1760

Proper Shipping Name CORROSIVE LIQUIDS, N.O.S.

Hazard Class 8

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Packing Group II
Classification code C9
Tunnel restriction code (E)

**Description** UN1760 CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE,

SODIUM NITRITE), 8, II (E)

<u>ADN</u>

**UN-No.** UN1760

Proper Shipping Name CORROSIVE LIQUIDS, N.O.S.

Hazard Class 8
Packing Group II
Classification code C9
Special Provisions 274

Description UN1760 CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE,

SODIUM NITRITE), 8, II

Hazard Labels Limited 8
Quantity 1 L

# 15. REGULATORY INFORMATION

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

### **International Regulations**

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

**Export Notification requirements** Not applicable

**International Inventories** 

TSCA

Contact supplier for inventory compliance status.

#### 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

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

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US Federal Regulations**

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Sodium nitrite - 7632-00-0	7632-00-0	10-30	1.0

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No

**Reactive Hazard** 

No

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

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium nitrite 7632-00-0	100 lb	-	-	X
Potassium Hydroxide 1310-58-3	1000 lb	-	-	Х

# **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium nitrite 7632-00-0	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ
Potassium Hydroxide 1310-58-3	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

# **US State Regulations**

**California Proposition 65** 

Chemical name	CAS	Listed as causing:		
Sodium Tetraborate	12179-04-3	Considered but not listed.		

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

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Sodium nitrite 7632-00-0	Х	Х	Х	Х	Х
Sodium Borate 12179-04-3	Х	Х	-	-	-
Potassium Hydroxide 1310-58-3	Х	X	Х	Х	-

# **16. OTHER INFORMATION**

NFPA Health hazards 3 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 3 \* Flammability 0 Physical hazards 0 Personal Protection X

Chronic Hazard Star Legend \*= Chronic Health Hazard

Issuing Date 08-August-2021

Prior Revision Date 03-March-2020

Revision Note No information available

# **METALGUARD® G5**

#### 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.

**End of Safety Data Sheet**