NALCO Champion An Ecolab Company

SAFETY DATA SHEET

Cortron™ RN-531FB

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

: Cortron™ RN-531FB Product name

Other means of identification Not applicable.

Recommended use **CORROSION INHIBITOR**

Refer to available product literature or ask your local Sales Representative for Restrictions on use

restrictions on use and dose limits.

Company **Nalco Champion Company**

7705 Highway 90-A

Sugar Land, Texas 77478

USA

TEL: (281) 263-7000

Emergency telephone

number

(800) 424-9300 (24 Hours) **CHEMTREC**

Issuing date 10/12/2015

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids Category 3 Acute toxicity (Oral) Category 4 Acute toxicity (Inhalation) : Category 4 Acute toxicity (Dermal) : Category 4 Skin corrosion Category 1B Serious eye damage Category 1 Skin sensitization Category 1 Specific target organ toxicity

- single exposure

Category 1 (Eyes)

Specific target organ toxicity

Category 2

- single exposure

Specific target organ toxicity Category 3 (Central Nervous System)

- single exposure

Specific target organ toxicity Category 2

- repeated exposure (Oral)

GHS Label element

Hazard pictograms









Signal Word Danger

Hazard Statements Flammable liquid and vapour.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction. May cause drowsiness or dizziness.

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Causes damage to organs (Eyes).

May cause damage to organs.

May cause damage to organs through prolonged or repeated exposure if

swallowed.

Harmful if swallowed, in contact with skin or if inhaled

Precautionary Statements

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or doctor/ physician. Immediately call a POISON CENTER or doctor/ physician. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name CAS-No. Concentration: (%) Methanol 67-56-1 10 - 30 Proprietary 5 - 10 Imidazoline salts Quaternary ammonium compound Proprietary 5 - 10 2-Mercaptoethanol 60-24-2 1 - 5 Cyclic amine derivatives, acetate **Proprietary** 1 - 5

Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild

soap if available. Wash clothing before reuse. Thoroughly clean shoes before

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reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by

mouth to an unconscious person. Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention.

Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put

yourself at risk of injury. If in doubt, contact emergency responders. Use

personal protective equipment as required.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and

delayed

See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing

media

None known.

Specific hazards during

firefighting

: Fire Hazard

Keep away from heat and sources of ignition. Flash back possible over considerable distance.

Beware of vapours accumulating to form explosive concentrations. Vapours can

accumulate in low areas.

Hazardous combustion

products

Decomposition products may include the following materials: Carbon oxides

nitrogen oxides (NOx) Sulphur oxides Hydrogen chloride

Special protective equipment:

for firefighters

Use personal protective equipment.

Specific extinguishing

methods

Use water spray to cool unopened containers. Fire residues and contaminated

fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike

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spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

Advice on safe handling : Open drum carefully as content may be under pressure. Take necessary action

to avoid static electricity discharge (which might cause ignition of organic vapours). Do not ingest. Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate

ventilation.

Conditions for safe storage : Keep away from heat and sources of ignition. Keep in a cool, well-ventilated

place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers. Avoid direct sunlight. At temperatures greater than 30°C a component of this product may

degrade leading to the production of hydrogen sulfide (H2S).

Suitable material : Keep in properly labelled containers.

Unsuitable material : not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		STEL	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z1
2-Mercaptoethanol	60-24-2	TWA	0.2 ppm	AIHA WEEL

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles

Face-shield

Hand protection : Wear protective gloves.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing

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Respiratory protection : When workers are facing concentrations above the exposure limit

they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes

and body in case of contact or splash hazard.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : clear
Odour : Pungent

Method: Pensky-Martens closed cup

pH : 4.7 - 6.7, (undiluted)

: 36.7 °C

Odour Threshold : no data available

Melting point/freezing point : no data available

Initial boiling point and boiling : no data available

range

Flash point

Evaporation rate : no data available
Flammability (solid, gas) : no data available
Upper explosion limit : no data available
Lower explosion limit : no data available
Vapour pressure : no data available
Relative vapour density : no data available

Relative density : 0.9518 - 0.9919 (20 °C)

Density : 0.9501 - 0.9901 g/cm3

Water solubility : soluble

Solubility in other solvents : no data available Partition coefficient: n- : no data available

octanol/water

Auto-ignition temperature : no data available
Thermal decomposition : no data available

temperature

Viscosity, dynamic : 1 - 16 mPa.s

Viscosity, kinematic : 5.8 mm2/s (40 °C)

Molecular weight : no data available VOC : no data available

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Section: 10. STABILITY AND REACTIVITY

At temperatures greater than 30°C a component of this product may degrade Chemical stability

leading to the production of hydrogen sulfide (H2S).

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Oxidizing agents

Hazardous decomposition

products

Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides Hydrogen chloride

Section: 11. TOXICOLOGICAL INFORMATION

exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Causes serious eye damage.

Skin : Harmful in contact with skin. Causes severe skin burns. May

cause allergic skin reaction.

: May cause blindness if swallowed. Harmful if swallowed. Ingestion

Causes digestive tract burns.

Inhalation : Harmful if inhaled. May cause nose, throat, and lung irritation.

Inhalation may cause central nervous system effects.

Chronic Exposure : May cause damage to organs. May cause damage to organs

through prolonged or repeated exposure.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Irritation, Corrosion, Allergic reactions

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough, Dizziness, Drowsiness

Toxicity

Product

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Acute oral toxicity : Acute toxicity estimate : 383.6 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : 11.57 mg/l

Exposure time: 4 h

Acute dermal toxicity : Acute toxicity estimate : 1,100 mg/kg

Skin corrosion/irritation : no data available

Serious eye damage/eye

irritation

: no data available

Respiratory or skin

sensitization

: no data available

Carcinogenicity : no data available

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT - single exposure : no data available

STOT - repeated exposure : no data available

Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Components

Toxicity to fish : Methanol

LC50 : 15,400 mg/l Exposure time: 96 h

Components

Toxicity to daphnia and other

aquatic invertebrates

: Methanol

EC50 : > 10,000 mg/l Exposure time: 48 h

Quaternary ammonium compound

EC50: 0.0059 mg/l Exposure time: 48 h

2-Mercaptoethanol

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EC50: 0.89 mg/l Exposure time: 48 h

Components

Toxicity to algae : Methanol

EC50: 22,000 mg/l Exposure time: 72 h

Components

Toxicity to bacteria : Methanol

> 1,000 mg/l

Components

Toxicity to fish (Chronic : Methanol

toxicity) NOEC: 7,900 mg/l Exposure time: 8.3 d

Persistence and degradability

no data available

Mobility

no data available

Bioaccumulative potential

no data available

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The classification or waste code may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Disposal methods : The product should not be allowed to enter drains, water

courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in

an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be

taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

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Land transport (DOT)

Proper shipping name : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Technical name(s) : Methanol, Imidazoline salts

: UN 2924 UN/ID No. Transport hazard class(es) : 3, 8 Packing group : 11 : 22,450 lbs

Reportable Quantity (per

package)

RQ Component : Methanol

Air transport (IATA)

Proper shipping name : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Technical name(s) : Methanol, Imidazoline salts

: UN 2924 UN/ID No. Transport hazard class(es) : 3, 8 Packing group : 11 : 22,450 lbs

Reportable Quantity (per

package)

RQ Component : Methanol

Sea transport (IMDG/IMO)

Proper shipping name : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Technical name(s) : Methanol, Imidazoline salts

UN/ID No. : UN 2924 Transport hazard class(es) : 3, 8 Packing group : 11

*Marine pollutant : Quaternary ammonium compound, 2-Mercaptoethanol

*Note: This product is regulated as a Marine Pollutant when shipped by Rail, Highway (in bulk quantities), or Air (if no other hazard class applies), and when shipped by water in all quantities.

Section: 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Methanol	67-56-1	5000	22450

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

Fire Hazard

Chronic Health Hazard

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SARA 302 : No chemicals in this material are subject to the reporting requirements

of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established

by SARA Title III, Section 313:

Methanol 67-56-1 10 - 30 %

California Prop 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

> Methanol 67-56-1

INTERNATIONAL CHEMICAL CONTROL LAWS:

TOXIC SUBSTANCES CONTROL ACT (TSCA)

On the inventory, or in compliance with the inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

This product contains one or several components listed in the Canadian NDSL.

AUSTRALIA not determined

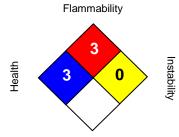
CHINA

not determined

NEW ZEALAND not determined

Section: 16. OTHER INFORMATION

NFPA:



Special hazard.

HMIS III:

HEALTH	3*
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Revision Date : 10/12/2015

Version Number : 1.1

Prepared By : Regulatory Affairs

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REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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. For additional copies of an SDS visit www.nalco.com and request access.