# CR®

# SAFETY DATA SHEET

## 1. Identification

Product identifier K&W® RevitaCool™ Coolant Boost

Other means of identification

**Product Code** No. 401322 (Item# 1008101)

Recommended use Coolant boost Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

885 Louis Dr. Warminster, PA 18974 US

Telephone

 General Information
 215-674-4300

 Technical Assistance
 800-521-3168

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

# 2. Hazard(s) identification

Physical hazards Not classified.

**Health hazards** Serious eye damage/eye irritation Category 2A

Carcinogenicity Category 2
Reproductive toxicity Category 2
Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment,

long-term hazard

azardous to the aquatic criviloriment,

Not classified.

Label elements

**Environmental hazards** 

**OSHA** defined hazards



Signal word Warning

Hazard statement Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the

unborn child. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the

Category 2

environment.

**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. If exposed or

concerned: Get medical advice/attention. Collect spillage.

Storage Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national regulations.

Material name: K&W® RevitaCool™ Coolant Boost

SDS US

None known.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
water		7732-18-5	70 - 80
propylene glycol		57-55-6	10 - 20
sodium nitrite		7632-00-0	5 - 10
triethanolamine		102-71-6	3 - 5
sodium tetraborate pentahydrate		12179-04-3	1 - 3
diethanolamine		111-42-2	< 1

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 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

**General information** 

symptoms/effects, acute and delayed

delayed

Indication of immediate medical attention and special treatment needed

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

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

•

No. 401322 (Item# 1008101) Version #: 02 Revision date: 01-11-2018 Issue date: 01-22-2016

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

General fire hazards

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

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

During fire, gases hazardous to health may be formed.

During fire, gases flazardous to fleath final be formed.

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

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

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

Use water spray to reduce vapors or divert vapor cloud drift. Prevent product from entering drains.

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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Material name: K&W® RevitaCool™ Coolant Boost

drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

US. ACGIH	Threshold	Limit Values
OO. ACCIII	Tillesiloid	Lilling Values

Components	Туре	Value	Form
diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
sodium tetraborate pentahydrate (CAS 12179-04-3)	STEL	6 mg/m3	Inhalable fraction.
,	TWA	2 mg/m3	Inhalable fraction.
triethanolamine (CAS 102-71-6)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
diethanolamine (CAS 111-42-2)	TWA	15 mg/m3	
•		3 ppm	
sodium tetraborate pentahydrate (CAS 12179-04-3)	TWA	1 mg/m3	
US. Workplace Environmental E	exposure Level (WEEL) Guides		
Components	Type	Value	Form
propylene glycol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

#### **Exposure guidelines**

#### US - California OELs: Skin designation

diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) 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.

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

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

Skin protection

**Hand protection** Wear protective gloves such as: Nitrile. Neoprene. Butyl rubber. Polyethylene.

Other Wear suitable protective clothing.

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Keep away from food and drink. 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.

Material name: K&W® RevitaCool™ Coolant Boost

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. **Form** Liquid.

Color Reddish-pink. Odor Glycol ether. **Odor threshold** Not available.

9.3 pН

Melting point/freezing point 1 °F (-17.2 °C) estimated 212 °F (100 °C) estimated Initial boiling point and boiling

range

None (Tag Closed Cup) Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

2.6 % estimated

(%)

Flammability limit - upper

12.6 % estimated

(%)

Vapor pressure 16.9 hPa estimated

Not available. Vapor density

1.07 Relative density

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 700 °F (371.1 °C) estimated

**Decomposition temperature** Not available. Percent volatile 87 % estimated

## 10. Stability and reactivity

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

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Hazardous decomposition Nitrogen oxides (NOx).

products

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Information on toxicological effects

Acute toxicity Not known.

Material name: K&W® RevitaCool™ Coolant Boost

SDS US

Components Species Test Results

diethanolamine (CAS 111-42-2)

<u>Acute</u>

Dermal

LD50 Rabbit 8180 mg/kg

Oral

LD50 Rat 680 mg/kg

propylene glycol (CAS 57-55-6)

Acute Dermal

LD50 Rabbit > 20000 mg/kg

Oral

LD50 Rat > 20000 mg/kg

sodium nitrite (CAS 7632-00-0)

<u>Acute</u>

Oral

LD50 Rat 181.82 mg/kg

sodium tetraborate pentahydrate (CAS 12179-04-3)

<u>Acute</u>

**Dermal** 

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat > 2 mg/l

Oral

LD50 Rat 3305 mg/kg

triethanolamine (CAS 102-71-6)

<u>Acute</u>

**Dermal** 

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat 4190 mg/kg

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

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause 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** Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

diethanolamine (CAS 111-42-2) 2B Possibly carcinogenic to humans.

triethanolamine (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - Not classified.

single exposure

Specific target organ toxicity - Not classified.

repeated exposure

## **Aspiration hazard**

Not an aspiration hazard.

**Chronic effects** 

May be harmful if absorbed through skin. Prolonged inhalation may be harmful. Prolonged

exposure may cause chronic effects.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

# 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
diethanolamine (CAS	111-42-2)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	61.8 - 86.04 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	100 mg/l, 96 hours
propylene glycol (CAS	S 57-55-6)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	710 mg/l, 96 hours
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	4850 - 34000 mg/l, 48 hours
sodium nitrite (CAS 76	632-00-0)		
Aquatic			
Crustacea	EC50	Greasyback shrimp (Metapenaeus ensis)	16.14 - 26.61 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.19 mg/l, 96 hours
sodium tetraborate pe	ntahydrate (CAS 12	2179-04-3)	
Acute	·	,	
Other	LC50	Activated sludge, industrial	175 mg/l, 3 hours
Chronic			
Other	NOEC	Collembola	31 - 37 mg/kg, 35 days
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	133 mg/l, 48 hours
Fish	LC50	Flannelmouth sucker (Catostomus latipinnis)	125 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Water flea (Daphnia magna)	>= 6 mg/l, 21 days
Fish	NOEC	Zebra danio (Danio rerio)	> 5.6 mg/l, 34 days
triethanolamine (CAS	102-71-6)		
Aquatic			
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	450 - 1000 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

diethanolamine -1.43
propylene glycol -0.92
sodium nitrite -3.7
sodium tetraborate pentahydrate -0.757
triethanolamine -1

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.

No. 401322 (Item# 1008101) Version #: 02 Revision date: 01-11-2018 Issue date: 01-22-2016

## 13. Disposal considerations

**Disposal instructions** This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty

> containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all

applicable regulations.

Not regulated. Hazardous waste code

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.

#### 15. Regulatory information

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

Standard, 29 CFR 1910.1200.

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

sodium nitrite (CAS 7632-00-0) 1.0 % One-Time Export Notification only.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

sodium nitrite (CAS 7632-00-0)

CERCLA Hazardous Substance List (40 CFR 302.4)

diethanolamine (CAS 111-42-2) Listed. sodium nitrite (CAS 7632-00-0) Listed.

**CERCLA Hazardous Substances: Reportable quantity** 

diethanolamine (CAS 111-42-2) 100 LBS sodium nitrite (CAS 7632-00-0) 100 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

## 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

Not regulated.

(SDWA)

**Food and Drug** Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard Acute toxicity (any route of exposure) Serious eye damage or eye irritation categories

Carcinogenicity Reproductive toxicity

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Material name: K&W® RevitaCool™ Coolant Boost

SDS US

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
diethanolamine	111-42-2	< 1	
sodium nitrite	7632-00-0	5 - 10	

#### **US** state regulations

## US. New Jersey Worker and Community Right-to-Know Act

diethanolamine (CAS 111-42-2) propylene glycol (CAS 57-55-6) sodium nitrite (CAS 7632-00-0)

sodium tetraborate pentahydrate (CAS 12179-04-3)

triethanolamine (CAS 102-71-6)

#### **US. Massachusetts RTK - Substance List**

diethanolamine (CAS 111-42-2) sodium nitrite (CAS 7632-00-0)

sodium tetraborate pentahydrate (CAS 12179-04-3)

triethanolamine (CAS 102-71-6)

### US. Pennsylvania Worker and Community Right-to-Know Law

diethanolamine (CAS 111-42-2) propylene glycol (CAS 57-55-6) sodium nitrite (CAS 7632-00-0) sodium tetrahorate pentahydrate

sodium tetraborate pentahydrate (CAS 12179-04-3)

triethanolamine (CAS 102-71-6)

## **US. Rhode Island RTK**

diethanolamine (CAS 111-42-2) propylene glycol (CAS 57-55-6) triethanolamine (CAS 102-71-6)

#### **California Proposition 65**



WARNING: Cancer - www.P65Warnings.ca.gov

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

diethanolamine (CAS 111-42-2) Listed: June 22, 2012

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

diethanolamine (CAS 111-42-2)

sodium tetraborate pentahydrate (CAS 12179-04-3)

20 %

# Volatile organic compounds (VOC) regulations

#### **EPA**

VOC content (40 CFR

51.100(s))

Consumer products (40 CFR 59, Subpt. C)

Not regulated

State

Consumer products Not regulated

VOC content (CA) 15 % VOC content (OTC) 15 %

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No

On inventory (yes/no)\* Country(s) or region Inventory name

Korea Existing Chemicals List (ECL) New Zealand New Zealand Inventory Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Toxic Chemical Substances (TCS) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*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).

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

Issue date 01-22-2016 01-11-2018 **Revision date** Allison Yoon Prepared by

Version # 02

**Further information** CRC # 895A/1002882

**HMIS®** ratings Health: 1\* Flammability: 0

Physical hazard: 0 Personal protection: B

Health: 1 NFPA ratings

Flammability: 0 Instability: 0

**NFPA** ratings



The information contained in this document applies to this specific material as supplied. It may not Disclaimer

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

This document has undergone significant changes and should be reviewed in its entirety. **Revision information** 

Material name: K&W® RevitaCool™ Coolant Boost

No