

## Rinse Aid

Version number: GHS 1.0

Date of compilation: 2015-04-06

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier**

Trade name **Rinse Aid**

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses automotive rinse aid

**1.3 Details of the supplier of the safety data sheet**

B&B Blending, LLC  
 10963 Leroy Drive  
 Northglenn  
 CO 80233 United States

Telephone: 1.800.875.6320, 1.303.289.6320  
 Telefax e-mail: info@bbblending.com  
 Website: bbblending.com

Competent person responsible for the SDS Robert Blahnik  
 e-mail (competent person) bblahnik@bbblending.com

**1.4 Emergency telephone number**

Emergency information service **USA 1.800.535.5053, INTL 1.352.323.3500**  
 24 hour emergency telephone number.

### SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

Annex	Hazard class and category	Hazard statement code(s)	
A.3	serious eye damage/eye irritation	Cat. 2A (Eye Irrit. 2A)	H319
A.6	carcinogenicity	Cat. 2 (Carc. 2)	H351

**Remarks**  
 For full text of H-phrases: see SECTION 16.

**2.2 Label elements**

**Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

**Signal word** **warning**

**Pictograms**

GHS07, GHS08



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### Hazard statements

H319 Causes serious eye irritation.  
 H351 Suspected of causing cancer.

### Precautionary statements

#### Precautionary statements - prevention

Wash thoroughly after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Use personal protective equipment as required.

#### Precautionary statements - response

IF exposed or concerned: get medical advice/attention.  
 If eye irritation persists: get medical advice/attention.

#### Precautionary statements - disposal

Dispose of contents/container to industrial combustion plant.

#### Hazardous ingredients for labelling

trisodium nitrilotriacetate

### 2.3 Other hazards

There is no additional information.



## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

Name of substance	Identifier	Wt%	Hazard class and category	Hazard statement	Pictograms
trisodium nitrilotriacetate	CAS No 18662-53-8	5 - < 10	A.10 Acute Tox. 4 A.3 Eye Irrit. 2A A.6 Carc. 2	H302 H319 H351	
propan-2-ol	CAS No 67-63-0	1 - < 5	B.6 Flam. Liq. 2 A.3 Eye Irrit. 2A A.8D STOT SE 3	H225 H319 H336	

For full text of abbreviations: see SECTION 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

Provide fresh air.

##### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

##### Following eye contact

Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

##### Hazardous combustion products

nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### For non-emergency personnel

Remove persons to safety.

##### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

#### 6.3 Methods and material for containment and cleaning up

##### Advices on how to contain a spill

Covering of drains.

##### Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

##### Appropriate containment techniques

Use of adsorbent materials.

##### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

##### Reference to other sections

Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Recommendations

##### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

##### Handling of incompatible substances or mixtures

##### Keep away from

caustic solutions

##### Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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### 7.2 Conditions for safe storage, including any incompatibilities

#### Managing of associated risks

#### Incompatible substances or mixtures

Observe compatible storage of chemicals.

#### Control of the effects

#### Protect against external exposure, such as

frost

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
US	isopropyl alcohol	67-63-0	PEL	400	980			29 CFR OSHA

#### Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified.

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average.

#### Relevant DNELs/DMELs/PNECs and other threshold levels

No data available.

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

##### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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• **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

**Appearance**

Physical state	liquid
Color	yellow
Odor	characteristic

**Other physical and chemical parameters**

pH (value)	2 - 4 at 25 °C
Melting point/freezing point	not determined
Initial boiling point and boiling range	82.5 °C
Flash point	>100 °C at 101.3 kPa (closed cup)
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapor pressure	31.69 hPa at 25 °C
Density	1 - 1.1 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	miscible in any proportion
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	>200 °C
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

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### SECTION 10: Stability and reactivity

**10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

**10.2 Chemical stability**

See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

There are no specific conditions known which have to be avoided.

**Physical stresses which might result in a hazardous situation and have to be avoided**

strong shocks

**10.5 Incompatible materials**

There is no additional information.

**Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

Test data are not available for the complete mixture.

**Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

**Acute toxicity**

Shall not be classified as acutely toxic.

**Acute toxicity of components of the mixture**

Name of substance	CAS No	Exposure route	ATE
trisodium nitrilotriacetate	18662-53-8	oral	1,740

**Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin.

**Respiratory or skin sensitization**

Shall not be classified as a respiratory or skin sensitizer.

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### Summary of evaluation of the CMR properties

Suspected of causing cancer.  
 Shall not be classified as germ cell mutagenic.  
 Shall not be classified as a reproductive toxicant.

### Carcinogenicity

- National Toxicology Program (United States): none of the ingredients are listed
- IARC Monographs

Name of substance	Name acc. to inventory	CAS No	wt%	Classification	Remarks	Number
trisodium nitrilotriacetate	Nitrilotriacetic acid, salts		8.83	2B		Volume 73

### Legend

2B Possibly carcinogenic to humans.

### Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Shall not be classified as hazardous to the aquatic environment.

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
trisodium nitrilotriacetate	18662-53-8	LC50	114 mg/l	fish	96 hours
trisodium nitrilotriacetate	18662-53-8	EC50	98 mg/l	aquatic invertebrates	96 hours
trisodium nitrilotriacetate	18662-53-8	ErC50	>91.5 mg/l	algae	72 hours
propan-2-ol	67-63-0	LC50	10,000 mg/l	fish	96 hours

#### Aquatic toxicity (chronic)

#### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
propan-2-ol	67-63-0	LC50	>10,000 mg/l	aquatic invertebrates	24 h



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### 12.2 Process of degradability

Data are not available.

#### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
trisodium nitrilotriacetate	18662-53-8	DOC removal	50 %	9 d
propan-2-ol	67-63-0	oxygen depletion	53 %	5 d

### 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
trisodium nitrilotriacetate	18662-53-8		-10.08	

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### 13.3 Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.



# Safety Data Sheet

acc. to OSHA, Appendix D to § 1910.1200

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### SECTION 14: Transport information

- 14.1** UN number (not subject to transport regulations)
- 14.2** UN proper shipping name not relevant
- 14.3** Transport hazard class(es)  
Class -
- 14.4** Packing group not relevant
- 14.5** Environmental hazards none (non-environmentally hazardous acc. to the dangerous goods regulations)
- 14.6** **Special precautions for user**  
There is no additional information.
- 14.7** **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
The cargo is not intended to be carried in bulk.

### SECTION 15: Regulatory information

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

##### National regulations (United States)

##### Industry or sector specific available guidance(s)

##### • **NPCA-HMIS® III**

Hazardous Materials Identification System (American Coatings Association)

Category	Rating	Description
<b>Chronic</b>	*	Chronic (long-term) health effects may result from repeated overexposure.
<b>Health</b>	2	Temporary or minor injury may occur.
<b>Flammability</b>	1	Materials that must be preheated before ignition can occur.
<b>Physical hazard</b>	0	Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives.
<b>Personal protective equipment</b>	-	

##### • **NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States) - National Fire Protection Association (United States)

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Category	Degree of hazard	Description
<b>Flammability</b>	1	Materials that must be preheated before ignition can occur.
<b>Health</b>	0	Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material.
<b>Instability</b>	0	Materials that are normally stable, even under fire conditions.
<b>Special hazard</b>		

### Relevant European Union (EU) safety, health and environmental provisions

#### **Classification according to GHS (1272/2008/EC, CLP)**

Serious eye damage/eye irritation

Cat. 2A (Eye Irrit. 2A)

Carcinogenicity

Cat. 2 (Carc. 2)

## SECTION 16: Other information

### 16.2 Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR OSHA	29 CFR §1910.1001 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
Acute Tox.	acute toxicity
ATE	Acute Toxicity Estimate
BCF	BioConcentration Factor
BOD	Biochemical Oxygen Demand
Carc.	carcinogenicity
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	chemical oxygen demand
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
Eye Dam.	seriously damaging to the eye
Eye Irrit.	irritant to the eye
Flam. Liq.	flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC Monographs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
log KOW	n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")

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Abbr.	Descriptions of used abbreviations
NFPA® 704	National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts per million
STOT SE	specific target organ toxicity - single exposure
vPvB	very Persistent and very Bioaccumulative

### 16.3 Key literature references and sources for data

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200
- 49 CFR § 172.101 Hazardous Materials Table (DOT)

### 16.4 Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### 16.5

#### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H225	highly flammable liquid and vapor
H302	harmful if swallowed
H319	causes serious eye irritation
H336	may cause drowsiness or dizziness
H351	suspected of causing cancer

### 16.7

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.