



MATERIAL SAFETY DATA SHEET

WARRIOR GERMI SHIELD CLEANER

SECTION 1. PRODUCT IDENTIFICATION

Product Name : Warrior Germi Shield Cleaner
Product Code : RN-NCI
Catalogue Number : RN-NCI-L, RN-NCI-M, RN-NCI-H
Manufacturer/Supplier : Reinste Nano Ventures Private Limited,
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SECTION 2. INGREDIENTS

Di-sodium metasilicate : (CAS No.)6834-92-0
Sodium hydroxide : (CAS No.)1310-73-2
Ethoxylated alcohols : (CAS No.)68439-45-2
Ammonium compounds : (CAS No.)70750-47-9
Propan-2-ol : (CAS No.)67-63-0
Ethanol : (CAS No.)64-17-5
2-butoxyethanol : (CAS No.)111-76-2
Ethoxylated alcohols : (CAS No.)68439-46-3
2-propanol,1-butoxy : (CAS No.)5131-66-8
Water : (CAS No.)007732-18-5
Silver : (CAS No.)7440-22-4
Other additional substances in trace amounts

SECTION 3. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid
Color : transparent liquid
Odor : weak odour
pH : 12.7
Freezing Point (° C) : 0 ° C
Stability : 3 ° C to 40 ° C
Use Temperature : 15 ° C to 35 ° C
Melting point (° C) : N.A
Boiling point (° C) : 100 ° C
Decomposition Temperature (° C) : not determined
Specific density (Kg / dm³) : 1.049
Relative density relative to water : 1.049
Bulk Density (kg / m³) : N.A
Vapor Pressure (kPa) : Cf. water
Solubility in Water (g/100ml) : completely soluble
Flash Point (° C) : N.A
Auto ignition Temperature (° C) : N.A
Explosivity : N.A
Flammable Limits - Lower (° C) : N.A
Explosion limit - upper (° C) : N.A
Log P octanol / water at 20 ° C : N.A
Oxidation – properties : N.A
Specific conductivity (S / m) : N.A

SECTION 4. STABILITY AND REACTIVITY

Stability : Stable under normal conditions
Hazardous reactions : not known
Conditions to avoid : N.A
Materials to avoid : N.A
Hazardous decomposition products : N.A

SECTION 5. EXPOSURE CONTROLS / PERSONAL PROTECTION EQUIPMENT

Protection of workers: indicative
Occupational Exposure Limit Values: N.A.
Personal protection: N.A.

**Respiratory:**

In normal use, no special protective equipment required. If the product is sprayed, the necessary safety measures must be taken. In no case aerosols may come in contact with the skin or can be inhaled. Respiratory equipment required during spraying. Ventilation, local suction.

Hands :

Protective gloves of impervious material wear. The material thickness and the breakthrough time are not applicable to the product and only depends on the method of application and use.

Eyes :

During operation, wear safety glasses with side shields.

Skin :

Wear suitable protective clothing.

Hygienic precautions :

Do not eat, drink or smoke during use. For a break and at the end of work hands and / or face should be washed. Use an oily soap and skin cream for care of the skin for optimal protection

Environmental exposure :

Do not allow contaminated extinguishing water to enter the soil, ground water or surface waters. Dispose contaminated extinguishing water in accordance with applicable international, national, and local laws, ordinances and statutes.

SECTION 6. HAZARDS IDENTIFICATION**Hazardous components:**

none

Hazardous impurities:

n/a

Main hazards:

Analysis of the components that could be dangerous:

Di-sodium metasilicate:

Follows the generic concentration limits under Directive 1999/45/EC Annex II, Part B Table IV C, R34 concentration <5% no dangerous goods, contains <3%.

Sodium hydroxide :

Specific concentration limits Index 011-002-00-6, concentration <0.5% no dangerous goods, contains <0.3%.

Ethoxylated alcohols, C7-21:

Product not registered under EINECS, no EC number, CAS 688439-45-2, U.S. classification Xi with R38, R41. Follows the generic concentration limits under Directive 1999/45/EC Annex II, Part B Table IV; Xi with R38 concentration <20%, no dangerous goods and Xi with R41, concentration <5% no dangerous goods, contains <4%.

Ammonium compounds, coco alkyl bis (hydroxyethyl) methyl, chlorides :

Follows the generic concentration limits under Directive 1999/45/EC Annex II, Part B Table I; Xn with R22, concentration limit <25% no dangerous goods; Table IV Xi with R38 concentration limit <20% no dangerous goods; Table IV Xi with R41 concentration limit <5% no dangerous goods, contains <2%.

Propan-2-ol :

Follows the generic concentration limits under Directive 1999/45/EC Annex II, Part B Table IV A, Xi with R36 concentration limit <5% no dangerous goods; R67 is optional. Contains <0.3%. F with R11 expires, the flash point is not applicable at the indicated concentration in water.

Ethanol :

contains <0.3%. F with R11 expires, the flash point is not applicable at the indicated concentration in water.

2-butoxyethanol :

Follows the generic concentration limits under Directive 1999/45/EC Annex II, Part B Table I, with Xn R20/21/22, concentration limit <25% no dangerous goods; Table IV with Xi R36/38 concentration limit <20% no dangerous goods, contains 0.03%.

Ethoxylated alcohols, C9-11 :

Product not registered under EINECS, no EC number, CAS 68439-46-3, U.S. classification with R41 Xi. Follows the generic concentration limits under Directive 1999/45/EC Annex II, Part B Table IV. Xi with R 41 concentration <20%, no dangerous goods, contains <0.03%.

2-propanol, 1-butoxy :

Follows the generic concentration limits under Directive 1999/45/EC Annex II, Part B Table IV. With Xi R36/38, concentration <5%, no dangerous goods, contains <0.03%.

Conclusion :

The preparation should not be classified as dangerous goods.

Risk phrases :

not applicable

Health Hazards :

contact irritation of the eyes and skin, harmful if swallowed. Physical and chemical hazards

Specific hazards :

none known at these concentrations

SECTION 7. TOXICOLOGICAL INFORMATION

Acute oral toxicity :	N.A
Skin irritation :	Irritating by prolonged exposure
Eye irritation :	Irritating
Inhalation :	With the exception of spray product, non- irritant in normal use
Carcinogens :	None of the products is listed as a carcinogen.

SECTION 8. FIRST AID MEASURES

Emergency medical treatment

Inhalation :	There is no danger to inhale the product till 30°C. Respiratory equipment required during spraying. Ventilation, local suction, CE- gasmask for organic vapours / solvents (type A, brown). Do not inhale spray droplets. If symptoms occur, seek medical advice.
Skin contact :	Consult a doctor in the event of a skin reaction. Change badly soiled or soaked clothing.
Eye contact :	Remove contact lenses. Immediately wash with plenty of water during several minutes and seek medical advice.
Intake by mouth:	Rinse mouth, drink lots of water. Contact a physician and show this Safety Data. DO NOT induce the patient to vomit
Symptoms and effects :	typical symptoms and effects are not known.
Notes to physician :	No hazard which require special First aid measure

SECTION 9. FIRE FIGHTING MEASURES

This product is non-flammable.

Flash point not applicable

Extinguishing media :

Hazardous combusting products:

All extinguishing media are suitable

In the event of fire, carbon monoxide and carbon dioxide and nitrogen oxides may be released. Other decomposition products are not expected.

Additional information :

Do not allow contaminated extinguishing water to enter the soil, ground water or surface waters. Dispose contaminated extinguishing water in accordance with applicable international, national and local laws, ordinances and statutes.

SECTION 10. ACCIDENTAL RELEASE MEASURES

Environmental precautions :	Do not allow to enter the soil, ground water or surface waters.
Methods of cleaning up:	
On the ground:	Prevent spreading over a wide area Remove mechanically; cover the remainder with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand).
On water :	Completely soluble in water.
Neutralization :	N.A.
Removal :	Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used

SECTION 11. HANDLING AND STORAGE

Handling:	When handling observe the usual precautionary measures for chemicals.
Unusual fire and explosion hazards :	No special requirements
Incompatible products :	N.A.
Storage :	Polypropylene, polyethylene
Technical measures :	Storage at temperatures between 5 -40 ° C
Suitable storage conditions :	Store in original container. Keep drum tightly closed.
Avoid storage conditions :	Do not expose to temperatures - 0 ° C
Store out of reach of :	No specific requirements
Materials to avoid :	No information available
Relevant legislation :	No information available

SECTION 12. ECOLOGICAL INFORMATION

Data on elimination (persistence and degradability). Behavior of the product in environmental compartments. Ecotoxicity No ecotoxicological studies are available.

SECTION 13. TRANSPORT INFORMATION

Transport / further information.

The product is not classified as dangerous goods. RID/ ADR class: n/a

SECTION 14. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

Uncleaned packagings:

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until 'drip-dry'), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

Waste code :

The Waste code should be conform to the European Waste registry, 2000/532/EC, in consultation with the processor / manufacturer / authorities be established.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Dir. 2006/8/EC Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 453/2010 (Annex I) Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: Restriction 3 Restriction 40 Restrictions related to the substances contained: No restriction. REACH Regulation (1907/2006) – All. XVII: N.A. Legislative Decree no. 81 of the 9th of April 2008 Title XI "Dangerous substances - Chapter I - Protection against chemical agents" Directive 2000/39/CE and s.m.i. (Professional threshold limit) Legislative Decree no. 152 of the 3rd of April 2006 and subsequent modifications and additions. (Environmental regulations) Directive 105/2003/CE (Seveso III): N.A

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