Safety Data Sheet

Document group:	29-6122-5	**Version number:**	3.00
Revision date:	27/05/2015	**Supersedes date:**	19/03/2015

Transportation version number: 1.00 (31/01/2012)

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

1.1. Product identifier
G95, Hot Rims® All Wheel and Tyre Cleaner (24-57A): G9524

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

Identified uses
Automotive.

1.3. Details of the supplier of the safety data sheet

Address:	Meguiars United Kingdom Limited, 3 Lamport Court, Heartlands, Daventry, Northants, NN11 8UF
Telephone:	+44 (0)870 241 6696
E Mail:	info@meguiars.co.uk
Website:	www.meguiars.co.uk

1.4. Emergency telephone number
+44 (0)870 241 6696

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:
Substance or Mixture Corrosive to Metals, Category 1 - Met. Corr. 1; H290
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318
Skin Corrosion/ Irritation, Category 1A - Skin Corr. 1A; H314
Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive
Indication of danger
Corrosive; C; R35

For full text of R phrases, see Section 16.

2.2. Label elements
CLP REGULATION (EC) No 1272/2008

SIGNAL WORD
DANGER.

Symbols:
GHS05 (Corrosion) |

Pictograms

HAZARD STATEMENTS:

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.

Prevention:

P234	Keep only in original container.
P260E	Do not breathe vapour or spray.
P280D	Wear protective gloves, protective clothing, and eye/face protection.

Response:

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor/physician.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage:

P405	Store locked up.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2% of the mixture consists of components of unknown acute dermal toxicity.

Notes on labelling
Updated per Regulation (EC) No. 648/2004 on detergents.
Ingredients required per 648/2004: <5%: Anionic surfactant, EDTA and salts thereof, non-ionic surfactant.

Material is classified as skin corrosive 1A per test data

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Symbol(s)

Corrosive

Contains:

No ingredients are assigned to the label.

Risk phrases

R35	Causes severe burns.

Safety phrases

S23C	Do not breathe vapour or spray.
S36/37/39B	Wear suitable protective clothing, gloves, and eye and face protection.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28C	After contact with skin, wash immediately with plenty of water for 15 minutes.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S1/2	Keep locked up and out of reach of children.

Notes on labelling

Updated per Regulation (EC) 648/2004 on detergents.
Ingredients required per 648/2004: <5%: Anionic surfactant, EDTA and salts thereof, non-ionic surfactant.
Material is classified as R35 per test data

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Non-Hazardous Ingredients	Mixture		75 - 95	
Tetrasodium ethylenediaminetetraacetate	64-02-8	EINECS 200-573-9	< 5	Xn:R22; Xi:R41 (EU) R52/53 (Self Classified) Acute Tox. 4, H302; Eye Dam. 1, H318 (CLP)
Sodium Metasilicate	6834-92-0	EINECS 229-912-9	< 5	C:R34; Xi:R37 (EU) Skin Corr. 1B, H314; STOT SE 3, H335 (CLP) Met. Corr. 1, H290 (Self Classified)
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	EINECS 270-407-8	< 5	Xn:R22; Xi:R41; R52 (Self Classified) Acute Tox. 4, H302; Eye Dam. 1, H318; Aquatic Chronic 3,

				H412 (Self Classified)
2-(Propyloxy)ethanol	2807-30-9	EINECS 220-548-6	< 5	Xn:R21; Xi:R36 (EU) R52 (Self Classified) Acute Tox. 4, H312; Eye Irrit. 2, H319 (CLP)
N,N-Dimethyldecylamine N-oxide	2605-79-0	EINECS 220-020-5	< 2	Xi:R38-41 (Vendor) N:R50 (Self Classified) Skin Irrit. 2, H315; Eye Dam. 1, H318 (Vendor) Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 (Self Classified)

Please see section 16 for the full text of any R phrases and H statements referred to in this section
Please refer to section 15 for the any applicable Notas that have been applied to the above components

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact
Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

Eye contact
Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If swallowed
Rinse mouth. Do not induce vomiting. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1 Information on toxicological effects

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

5.3. Advice for fire-fighters
No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Contain spill. For large spills, if necessary, get assistance from professional spill clean up team. For small spills, carefully neutralise spill by adding appropriate dilute acid such as vinegar. Work slowly to avoid boiling or spattering. Continue to add neutralising agent until reaction stops. Let cool before collecting. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Absorb spillage to prevent material damage. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with water. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

6.4. Reference to other sections
Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Keep out of reach of children. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminium, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

7.2. Conditions for safe storage including any incompatibilities
Protect from sunlight. Store away from heat. Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store away from acids. Store away from oxidising agents.

7.3. Specific end use(s)
See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Full face shield.
Indirect vented goggles.

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.
Gloves made from the following material(s) are recommended:

Material	**Thickness (mm)**	**Breakthrough Time**
Nitrile rubber.	No data available	No data available

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Nitrile boots.
Apron – Nitrile

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	Mild odour; Clear
Odour threshold	*No data available.*
pH	13.56
Boiling point/boiling range	>=200 ºC
Melting point	*No data available.*
Flammability (solid, gas)	Not applicable.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	Flash point > 93 °C (200 °F)

Autoignition temperature	*No data available.*
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	*No data available.*
Relative density	1.02 - 1.03 [*Ref Std:*WATER=1]
Water solubility	Complete
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Evaporation rate	*No data available.*
Vapour density	*No data available.*
Decomposition temperature	*No data available.*
Viscosity	*No data available.*
Density	1.02 - 1.03 g/ml

9.2. Other information

Volatile organic compounds (VOC) *No data available.*

SECTION 10: Stability and reactivity

10.1 Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation may occur.

10.4 Conditions to avoid
Heat.

10.5 Incompatible materials
Strong acids.
Strong oxidising agents.

10.6 Hazardous decomposition products

Substance	**Condition**
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation
Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin contact
Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Eye contact
Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion
Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Sodium Metasilicate	Dermal	Rabbit	LD50 > 4,640 mg/kg
Sodium Metasilicate	Ingestion	Rat	LD50 500 mg/kg
2-(Propyloxy)ethanol	Dermal	Rabbit	LD50 1,337 mg/kg
2-(Propyloxy)ethanol	Inhalation-Vapor (4 hours)	Rat	LC50 > 11.1 mg/l
2-(Propyloxy)ethanol	Ingestion	Rat	LD50 3,089 mg/kg
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Dermal	Rat	LD50 > 2,000 mg/kg
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	Rat	LD50 578 mg/kg
Tetrasodium ethylenediaminetetraacetate	Ingestion	Rat	LD50 1,658 mg/kg
N,N-Dimethyldecylamine N-oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
N,N-Dimethyldecylamine N-oxide	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro data	Corrosive
Sodium Metasilicate	Rabbit	Corrosive
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	similar health hazards	Corrosive
Sodium Metasilicate	Rabbit	Corrosive
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
Sodium Metasilicate	Mouse	Not sensitising
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Guinea pig	Not sensitising

Respiratory Sensitisation

For the component/components, either no data is currently available or the data is not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Sodium Metasilicate	In Vitro	Not mutagenic
Sodium Metasilicate	In vivo	Not mutagenic
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Dermal	Rat	Not carcinogenic
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Sodium Metasilicate	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Mouse	NOAEL 200 mg/kg/day	during gestation
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	Not toxic to female reproduction	Rat	NOAEL 871 mg/kg	2 generation
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	Not toxic to male reproduction	Rat	NOAEL 891 mg/kg	2 generation
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rabbit	NOAEL 600 mg/kg	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sodium Metasilicate	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sodium Metasilicate	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 2,400 mg/kg/day	4 weeks
Sodium Metasilicate	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 804 mg/kg/day	3 months
Sodium Metasilicate	Ingestion	blood	All data are negative	Rat	NOAEL 804 mg/kg/day	3 months
Sodium Metasilicate	Ingestion	heart | liver	All data are negative	Rat	NOAEL 1,259 mg/kg/day	8 weeks
Sulphonic acids, C14-16-alkane hydroxy and C14-	Ingestion	liver	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 500 mg/kg/day	6 months

16-alkene, sodium salts			classification			
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 500 mg/kg	6 months

Aspiration Hazard
For the component/components, either no data is currently available or the data is not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
N,N-Dimethyldecyl amine N-oxide	2605-79-0	Ricefish	Estimated	96 hours	LC50	29.9 mg/l
N,N-Dimethyldecyl amine N-oxide	2605-79-0	Water flea	Estimated	48 hours	EC50	2.23 mg/l
N,N-Dimethyldecyl amine N-oxide	2605-79-0	Green algae	Estimated	72 hours	EC50	0.129 mg/l
Tetrasodium ethylenediaminetetraacetate	64-02-8	Bluegill	Experimental	96 hours	LC50	41 mg/l
Tetrasodium ethylenediaminetetraacetate	64-02-8	Water flea	Experimental	48 hours	EC50	57 mg/l
2-(Propyloxy)ethanol	2807-30-9	Rainbow trout	Estimated	96 hours	LC50	1,474 mg/l
2-(Propyloxy)ethanol	2807-30-9	Green Algae	Estimated	72 hours	EC50	>1,000 mg/l
2-(Propyloxy)ethanol	2807-30-9	Water flea	Estimated	48 hours	EC50	1,550 mg/l
2-(Propyloxy)ethanol	2807-30-9	Crustacea	Estimated	96 hours	EC50	89.4 mg/l
Sodium Metasilicate	6834-92-0	Water flea	Estimated	48 hours	EC50	1,700 mg/l
Sodium Metasilicate	6834-92-0	Rainbow trout	Estimated	96 hours	LC50	281 mg/l
Sulphonic	68439-57-6	Water flea	Experimental	48 hours	EC50	4.53 mg/l

acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts						
N,N-Dimethyldecylamine N-oxide	2605-79-0	Water flea	Estimated	21 days	NOEC	0.36 mg/l
N,N-Dimethyldecylamine N-oxide	2605-79-0	Green algae	Estimated	72 hours	NOEC	0.005 mg/l
Tetrasodium ethylenediaminetetraacetate	64-02-8	Water flea	Experimental	21 days	NOEC	5.5 mg/l
2-(Propyloxy)ethanol	2807-30-9	Green Algae	Estimated	72 hours	NOEC	130 mg/l
2-(Propyloxy)ethanol	2807-30-9	Water flea	Estimated	21 days	NOEC	100 mg/l
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	Water flea	Estimated	21 days	NOEC	0.37 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Tetrasodium ethylenediaminetetraacetate	64-02-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Sodium Metasilicate	6834-92-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Non-Hazardous Ingredients	Mixture	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	Estimated Biodegradation	28 days	Dissolv. Organic Carbon Deplet	95 % weight	OECD 301E - Modified OECD Scre
2-(Propyloxy)ethanol	2807-30-9	Experimental Biodegradation	20 days	BOD	100 % weight	Other methods
N,N-Dimethyldecylamine N-oxide	2605-79-0	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	97 % weight	OECD 301E - Modified OECD Scre

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Sodium Metasilicate	6834-92-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Non-Hazardous Ingredients	Mixture	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Tetrasodium ethylenediaminetetraacetate	64-02-8	Experimental BCF-Carp	42 days	Bioaccumulation factor	123	OECD 305E - Bioaccumulation flow-through fish test
N,N-Dimethyldecylamine N-oxide	2605-79-0	Estimated Bioconcentration		Bioaccumulation factor	180	Estimated: Bioconcentration factor
Sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	Estimated Bioconcentration		Log Kow	0.7	Estimated: Octanol-water partition coefficient
2-(Propyloxy)ethanol	2807-30-9	Estimated Bioconcentration		Log Kow	0.08	Estimated: Octanol-water partition coefficient

12.4. Mobility in soil
Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

12.6. Other adverse effects

Material	CAS Nbr	Ozone Depletion Potential	Global Warming Potential
Non-Hazardous Ingredients	Mixture	0	

SECTION 13: Disposal considerations

13.1 Waste treatment methods
See Section 11.1 Information on toxicological effects

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of the manufacturer, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

EU waste code (product as sold)
20 01 29* Detergents containing dangerous substances

SECTION 14: Transportation information

ADR: UN3266 Corrosive Liquid, Basic, Inorganic, N.O.S (Sodium Metasilicate) Class 8, PG III, (E);C5
IMDG: UN3266 Corrosive Liquid, Basic, Inorganic, N.O.S (Sodium Metasilicate) Class 8, PG III, EmS:F-A, S-B
IATA: UN3266 Corrosive Liquid, Basic, Inorganic, N.O.S (Sodium Metasilicate) Class 8, PG III

SECTION 15: Regulatory information

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

Global inventory status
Contact manufacturer for more information The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA.

15.2. Chemical Safety Assessment
Not applicable

SECTION 16: Other information

List of relevant H statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

List of relevant R-phrases

R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R34	Causes burns.
R35	Causes severe burns.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R52	Harmful to aquatic organisms.
R52/53	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Revision information:
Revision Changes:
Section 01: 1.3. Details of the supplier of the safety data sheet heading information was modified.
Section 3: Composition/ Information of ingredients table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 14: Transportation classification information was modified.
Section 2: Other hazards phrase information was modified.
Label: Signal Word information was modified.
Label: CLP Precautionary - General information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 6: Accidental release personal information information was modified.
Section 7: Precautions safe handling information information was modified.

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