# Safety Data Sheet

# Prepared in Accordance with HCS 29 C.F.R. 1910.1200



# 1. Identification of the Substance/Mixture and the Company/Undertaking

1.1	Product Identifier	RM-2500A	Revision Date:	09/30/2024	
	Product Name:	Prime Gel 2500 Quick Bond Component A	Supersedes Date:	09/23/2022	
1.2	Relevant identified uses of the substance or mixture and uses advised against	See Technical Datasheet. Base of 2 co trained applicators. Construction chem			
1.3	Details of the supplier of the safety data sheet				
	Supplier:	Prime Resins Inc. 2291 Plunkett Road Conyers, GA 30012 USA Phone: 800-321-7212 Fax: 770-338-0936 www.primeresins.com			
	Datasheet Produced by:	EHS@primeresins.com			
1.4	Emergency telephone number:	CHEMTREC +001 703 5273887 (Outs CHEMTREC 1-800-424-9300 (Inside L			

# 2. Hazard Identification

# 2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, Chronic, category 2 Carcinogenicity, category 2 Eye Irritation, category 2A Skin Irritation, category 2 Skin Sensitizer, category 1 STOT, single exposure, category 3, RTI

# 2.2 Label elements

#### Symbol(s) of Product



## Signal Word

Warning

## Named Chemicals on Label

titanium dioxide, Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

## HAZARD STATEMENTS

Skin Irritation, category 2 Skin Sensitizer, category 1 Eye Irritation, category 2A STOT, single exposure, category 3, RTI Carcinogenicity, category 2 Hazardous to the aquatic environment, Chronic, category 2 <b>PRECAUTION PHRASES</b>	H315 H317 H319 H335 H351 H411	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer. Toxic to aquatic life with long lasting effects.
	P261 P273 P280 P284 P302+352 P304+340 P305+351+338 P308+313 P333+313 P391	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/ face protection. Wear respiratory protection. IF ON SKIN: Wash with plenty of soap and water. 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 so. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Collect spillage.

#### 2.3 Other hazards

Ingestion may cause irritation to mucous membranes.

## Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

# 3. Composition/Information On Ingredients

# 3.2 Mixtures

# Hazardous ingredients

Name According to EEC	EINEC No.	CAS-No.	<u>%</u>	<b>Classifications</b>	
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	500-033-5	25068-38-6	75-100	H315-317-319-335-4 11	Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3 RTI

Date	Printed:	09/30/2024
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titanium dioxide	236-675-5	13463-67-7	2.5 - <10	H351	Carc. 2	
hydrated, amorphous silica		112926-00-8	1.0 - <2.5			

CAS-No.	

M-Factors

25068-38-6 13463-67-7 112926-00-8

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

# 4. First-aid Measures

#### 4.1 Description of First Aid Measures

**GENERAL NOTES:** When symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance.

**AFTER INHALATION:** Remove person to fresh air. If signs/symptoms continue, get medical attention.

AFTER SKIN CONTACT: Use a mild soap if available. Do not use solvent or thinners to clean skin. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

**AFTER INGESTION:** Consult a physician. Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

#### Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

May cause sensitization by skin contact. Irritating to eyes and skin.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

# 5. Fire-fighting Measures

#### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Do not use a solid water stream as it may scatter and spread fire. Alcohol, Alcohol based solutions, any other media not listed above.

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

In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

#### 5.3 Advice for firefighters

Keep containers and surroundings cool with water spray. In the event of fire, wear self-contained breathing apparatus. Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# 6. Accidental Release Measures

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

Avoid contact with skin, eyes and clothing. For personal protection see section 8.2. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

#### 6.2 Environmental precautions

Discharge into the environment must be avoided. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. May cause long-term adverse effects in the aquatic environment.

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

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

# 7. Handling and Storage

#### 7.1 Precautions for safe handling

**INSTRUCTIONS FOR SAFE HANDLING:** Wear personal protective equipment. Avoid contact with skin and eyes. Apply technical measures to comply with the occupational exposure limits (see section 8).

**PROTECTION AND HYGIENE MEASURES:** Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

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

**CONDITIONS TO AVOID:** Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. Do not freeze. **STORAGE CONDITIONS:** Keep out of the reach of children. Keep at temperatures between 10 and 25 °C. Store in original container. Keep container tightly closed in a dry and well-ventilated place. Keep away from food, drink and animal feeding stuffs.

#### 7.3 Specific end use(s)

Component of multicomponent coatings. The mixing and application to be in accordance with the technical data sheets.

# 8. Exposure Controls/Personal Protection

# 8.1 Control parameters

#### Ingredients with Occupational Exposure Limits

(US)

Name	CAS-No.	ACGIH TWA	ACGIH STEL	ACGIH Ceiling
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25068-38-6			
titanium dioxide	13463-67-7	10 MGM3 10 MGM3		
hydrated, amorphous silica	112926-00-8	10.00 MG/M3		
Name	CAS-No.	OSHA PEL	<u>OSHA STEL</u>	
Name Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	<u>CAS-No.</u> 25068-38-6	OSHA PEL	<u>OSHA STEL</u>	
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number		OSHA PEL 15 MGM3	<u>OSHA STEL</u>	

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

## 8.2 Exposure controls

#### **Personal Protection**

**RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment, filter ABEK-P2.

**EYE PROTECTION:** Eye wash bottle with pure water. Safety glasses with side-shields conforming to EN 166. **HAND PROTECTION:** Use chemical resistant gloves (EN 374): Butyl rubber; thickness >= 0,5 mm; breakthrough time >=60 min. Use chemical resistant gloves (EN 374): Nitrile rubber; thickness >=0,5 mm; breakthrough time >= 480 min. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

Body Protection: Long sleeved clothing.

Remove and wash contaminated clothing before re-use.

**OTHER PROTECTIVE EQUIPMENT:** Ensure that eyewash stations and safety showers are close to the workstation location. **ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas.

# 9. Physical and Chemical Properties

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9.1	Information on basic physical and chemical properties Appearance:	White paste
	Physical State	Paste
	Odor	Slighlt aromatic
	Odor threshold	Not determined
	рН	Not determined
	Melting point / freezing point (°C)	Not determined
	Boiling point/range (°C)	N.D N.D.
	Flash Point, (°F / °C)	Not determined
	Evaporation rate	Not determined
	Flammability (solid, gas)	Not determined
	Upper/lower flammability or explosive limits - %(V)	Not determined
	Vapour Pressure	Not determined
	Vapour density	Not determined
	Relative density	10.11
	Solubility in / Miscibility with water	Not determined
	Partition coefficient: n-octanol/water	Not determined
	Auto-ignition temperature (°C)	Not determined
	Decomposition temperature (°C)	Not determined
	Viscosity	Not determined
	Explosive properties	Not determined
	Oxidising properties	Not determined
9.2	Other information	
	VOC Content g/l:	Not determined
	Specific Gravity (g/cm3)	1.214

# 10. Stability and Reactivity

## 10.1 Reactivity

No reactivity hazards known under recommended storage and use conditions.

## 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### **10.3 Possibility of hazardous reactions** Amines cause exothermic reactions.

Amines cause exothermic reaction

# 10.4 Conditions to avoid

Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. Do not freeze.

## 10.5 Incompatible materials

Oxidizing agents. Acids and bases.

# 10.6 Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). No decomposition if stored and applied as directed.

# 11. Toxicological Information

#### 11.1 Information on toxicological effects

Acute Toxicity:	
Oral LD50:	No information available.
Inhalation LC50:	No information available.
Irritation:	No information available.
Corrosivity:	No information available.
Sensitization:	No information available.
Repeated dose toxicity:	No information available.
Carcinogenicity:	No information available.
Mutagenicity:	No information available.
Toxicity for reproduction:	No information available.
STOT-single exposure:	No information available.
STOT-repeated exposure:	No information available.
Aspiration hazard:	No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
25068-38-6	Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	>2000 mg/kg, rat, oral	>2000 mg/kg, rat		0.000	0.000

Product:	RM-2500A
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13463-67-7	titanium dioxide	10000 mg/kg, oral (rat)	0.000	6,82 mg/l (rat) 4h
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# Additional Information:

In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Ingestion may cause irritation to mucous membranes. Irritating to eyes and skin. May cause allergic skin reaction. Constituents of this product may include crystalline silica which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimis exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems. This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

# 12. Ecological Information

12.1 T	Toxicity:						
	EC50 48hr (Daphnia):		ormation				
	IC50 72hr (Algae):	No inf	ormation				
	LC50 96hr (fish):	No inf	ormation				
12.2 P	Persistence and degradability:	No inf	ormation				
12.3 B	.3 Bioaccumulative potential:		ormation				
12.4 M	4 Mobility in soil:		ormation				
	.5 Results of PBT and vPvB assessment:		The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.				
12.6 C	Other adverse effects:	No inf	ormation				
CAS-No	o. Chemical Name		<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>		
25068-3	Reaction product: bisphenol-A- 38-6 (epichlorhydrin) epoxy resin (numb molecular weight <= 700)	er average	1.8 mg/l	No information	1.5-7.7 mg/L		
13463-6	67-7 titanium dioxide		>100 mg/l (EC50, 48h, Daphnia magna OECD202)ation	No information	>1000 mg/l		
112926-	6-00-8 hydrated, amorphous silica		No information	No information			
	Dianagal Canaidarationa						

# 13. Disposal Considerations

**13.1 WASTE TREATMENT METHODS:** Dispose of waste material at an approved hazardous waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems. Contaminated packaging to be disposed of as product. Fully drained containers which are drop- and scrape-free can be treated as industrial waste, and can possibly be recycled. Empty containers should be taken to an approved waste handling site for recycling or disposal. The product should not be allowed to enter drains, water courses or the soil.

#### 14. Transport Information **UN number** UN3082 14.1 14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. **Technical name** Epoxy resin 14.3 Transport hazard class(es) 9 Not applicable Subsidiary shipping hazard 14.4 Packing group Ш 14.5 Yes (Epoxy resin) **Environmental hazards** Special precautions for user 14.6 Not applicable EmS-No.: Not applicable Transport in bulk according to Annex II of 14.7 Not applicable MARPOL 73/78 and the IBC code

# 15. Regulatory Information

<sup>15.1</sup> Safety, health and environmental regulations/legislation for the substance or mixture:

# U.S. Federal Regulations: As follows -

#### **CERCLA - Sara Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Carcinogenicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

# Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the U.S. Superfund Amendment and Reauthorization Act (SARA) of 1986 and 40 CFR part 372:

No SARA 313 substances exist in this product above de minimis concentrations.

#### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

#### U.S. Clean Air Act:

EPA Coating Category:	Not applicable
EPA VOC Content Limit (g/l):	Not determined
Product VOC Content (g/l)	Not applicable
Thinning Recommendations:	Not applicable
Application Recommendations:	Not applicable

\* As per the federal EPA definition for coating categories in 40 CFR 59.401.

\*\* Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.

# U.S. State Regulations: As follows -

#### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

# Chemical Name

hydrophobic silicon dioxide No Chemical Name Found

#### Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	
hydrophobic silicon dioxide	

#### California Proposition 65:

WARNING: Cancer - www.P65Warnings.ca.gov

WARNING: Reproductive Toxicant -- www.P65Warnings.ca.gov

# International Regulations: As follows -

## \* Canadian DSL:

All chemical ingredients included on inventory or exempt.

## 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

# 16. Other Information

# Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation. H335 May cause respiratory irritation.
- way cause respiratory initial

<u>CAS-No.</u> 67762-90-7

> <u>CAS-No.</u> 67762-90-7

H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.

#### Reasons for revision

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Substance and/or Product Properties Changed in Section(s):
 01 - Identification
 02 - Hazard Identification
 03 - Composition/Information On Ingredients
 09 - Physical and Chemical Properties
 11 - Toxicological Information
 14 - Transportation Information
 15 - Regulatory Information
Revision Statement(s) Changed
List of References:
This Safety Data Sheet was compiled with data and information from the following sources:
- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in
Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.
Acronym & Abbreviation Key:
CLP
                  Classification, Labeling & Packaging Regulation
EC
                  European Commission
                  European Union
ΕU
               United States
US
                  Chemical Abstract Service
CAS
EINECS
                 European Inventory of Existing Chemical Substances
                 Registration, Evaluation, Authorization of Chemicals Regulation
REACH
                 Globally Harmonized System of Classification and Labeling of Chemicals
GHS
LTEL
                Long term exposure limit
                Short term exposure limit
STEL
                 Occupational exposure limit
OEL
                  Parts per million
maa
              Milligrams per cubic meter
mg/m3
                  Threshold Limit Value
TLV
              American Conference of Governmental Industrial Hygienists
ACGIH
OSHA
                Occupational Safety & Health Administration
PEL
                  Permissible Exposure Limits
VOC
                  Volatile organic compounds
                  Grams per liter
g/1
                Milligrams per kilogram
mg/kg
                 Not applicable
N/A
LD50
                Lethal dose at 50%
                Lethal concentration at 50%
LC50
EC50
                Half maximal effective concentration
                Half maximal inhibitory concentration
IC50
PBT
                 Persistent bioaccumulative toxic chemical
vPvB
                 Very persistent and very bioaccumulative
EEC
                  European Economic Community
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ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as
	modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects
IMO	International Maritime Organization
Note P:	The classification as a carcinogen or mutagen need not apply; the substance
	contains less than 0,1 % w/w benzene
Note 10:	The classification as a carcinogen by inhalation applies only to mixtures in
	powder form containing 1 $\%$ or more of titanium dioxide which is in the form of
	or incorporated in particles with aerodynamic diameter $\leq$ 10 µm.

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.

# Safety Data Sheet

# Prepared in Accordance with HCS 29 C.F.R. 1910.1200



# 1. Identification of the Substance/Mixture and the Company/Undertaking

1.1	Product Identifier	RM-2500C,B	Revision Date:	09/30/2024
	Product Name:	Prime Gel 2500 Quick Bond Component B	Supersedes Date:	09/23/2022
1.2	Relevant identified uses of the substance or mixture and uses advised against	Epoxy Hardener. Hardener of 2 compo applications. Construction chemical. P		me DIY
1.3	Details of the supplier of the safety	data sheet		
	Supplier:	Prime Resins Inc. 2291 Plunkett Road Conyers, GA 30012 USA Phone: 800-321-7212 Fax: 770-338-0936 www.primeresins.com		
	Datasheet Produced by:	EHS@primeresins.com		
1.4	Emergency telephone number:	CHEMTREC +001 703 5273887 (Outs CHEMTREC 1-800-424-9300 (Inside I		

# 2. Hazard Identification

# 2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, Chronic, category 2 Reproductive Toxicity, category 2 Skin Corrosion, category 1 Skin Sensitizer, category 1

# 2.2 Label elements



## Signal Word

Danger

## Named Chemicals on Label

2-piperazin-1-ylethylamine, Fatty acids, tall-oil, reaction products with tetraethylenepentamine, 4-nonylphenol, branched

# HAZARD STATEMENTS

Skin Corrosion, category 1 Skin Sensitizer, category 1 Reproductive Toxicity, category 2 Hazardous to the aquatic environment, Chronic, category 2	H314-1 H317 H361 H411	Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects.
PRECAUTION PHRASES		

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P284	Wear respiratory protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all
	contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do so. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.

# 2.3 Other hazards

No Information

## Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients						
3.2	Mixtures					
Hazar	rdous ingredients					
Name	According to EEC	EINEC No.	CAS-No.	<u>%</u>	<u>Classifications</u>	

Product: RM-2500C,B

4-nonylphenol, branched	284-325-5	84852-15-3	10 - <25	H302-314-361-400-4 10	Acute Tox. 4 Oral, Aquatic Acute 1, Aquatic Chronic 1, Repr. 2, Skin Corr. 1
2,4,6-tris (dimethylaminomethyl) phenol	202-013-9	90-72-2	2.5 - <10	H302-312-314	Acute Tox. 4 Dermal, Acute Tox. 4 Oral, Skin Corr. 1
2-piperazin-1- ylethylamine	205-411-0	140-31-8	2.5 - <10	H290-311-314-317-4 12	Acute Tox. 3 Dermal, Aquatic Chronic 3, Met. Corr. 1, Skin Corr. 1, Skin Sens. 1
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	273-201-6	68953-36-6	2.5 - <10	H314-317-400-410	Aquatic Acute 1, Aquatic Chronic 1, Skin Corr. 1, Skin Sens. 1
hydrated, amorphous silica		112926-00-8	1.0 - <2.5		
carbon black		1333-86-4	0.1 - <1.0	H332-351	Acute Tox. 4 Inhalation, Carc. 2
CAS-No.	M-Factors				

CAS-No. 84852-15-3 90-72-2 140-31-8 68953-36-6 112926-00-8 1333-86-4

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

# 4. First-aid Measures

## 4.1 Description of First Aid Measures

GENERAL NOTES: Show this safety data sheet to the doctor in attendance.

AFTER INHALATION: Move to fresh air. Provide fresh air, rest and warmth. Call a physician immediately. Give oxygen or artificial respiration if needed. When risk of unconsciousness, place and transport the victim in secured recovery position. AFTER SKIN CONTACT: Use a mild soap if available. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do not use solvent or thinners to clean skin. AFTER EYE CONTACT: Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

**AFTER INGESTION:** If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

#### Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

Causes burns. Irritating to skin. May cause sensitization by skin contact. Harmful by inhalation and if swallowed. Causes serious eye damage.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Immediate medical attention is required. No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11. When symptoms persist or in all cases of doubt seek medical advice.

# 5. Fire-fighting Measures

## 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above. Do not use a solid water stream as it may scatter and spread fire.

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

Heating or fire conditions liberates toxic gas. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).

#### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Keep containers and surroundings cool with water spray.

## 6. Accidental Release Measures

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

Ensure adequate ventilation. Use personal protective equipment.

#### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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

Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Clean with detergents. Avoid solvents.

#### 6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

# 7. Handling and Storage

## 7.1 Precautions for safe handling

**INSTRUCTIONS FOR SAFE HANDLING:** Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Do not breathe vapours or spray mist. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Apply technical measures to comply with the occupational exposure limits (see section 8).

PROTECTION AND HYGIENE MEASURES: Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

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

#### CONDITIONS TO AVOID: No Information

**STORAGE CONDITIONS:** Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store away from: oxidising materials, acids, and alkalis. Store in upright position only. Storage of corrosive material.

## 7.3 Specific end use(s)

No specific advice for end use available.

# 8. Exposure Controls/Personal Protection

# 8.1 Control parameters

# Ingredients with Occupational Exposure Limits (US)

<u>Name</u>	CAS-No.	ACGIH TWA	ACGIH STEL	ACGIH Ceiling
4-nonylphenol, branched	84852-15-3			
2,4,6-tris(dimethylaminomethyl)phen	ol 90-72-2			
2-piperazin-1-ylethylamine	140-31-8			
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	68953-36-6			
hydrated, amorphous silica	112926-00-8	10.00 MG/M3		
carbon black	1333-86-4	3 MGM3		
Name	<u>CAS-No.</u>	OSHA PEL	<u>OSHA STEL</u>	
Name 4-nonylphenol, branched	<u>CAS-No.</u> 84852-15-3	<u>OSHA PEL</u>	<u>OSHA STEL</u>	
	84852-15-3	<u>OSHA PEL</u>	<u>OSHA STEL</u>	
4-nonylphenol, branched	84852-15-3	<u>OSHA PEL</u>	<u>OSHA STEL</u>	
4-nonylphenol, branched 2,4,6-tris(dimethylaminomethyl)phen	84852-15-3 bl 90-72-2 140-31-8	<u>OSHA PEL</u>	<u>OSHA STEL</u>	
4-nonylphenol, branched 2,4,6-tris(dimethylaminomethyl)phen 2-piperazin-1-ylethylamine Fatty acids, tall-oil, reaction products	84852-15-3 bl 90-72-2 140-31-8	OSHA PEL 6.00 MG/M3	<u>OSHA STEL</u>	

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

## 8.2 Exposure controls

#### Personal Protection

**RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment, Combination filter A2-P2.

EYE PROTECTION: Face-shield. Safety glasses with side-shields conforming to EN 166.

HAND PROTECTION: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin. Protective gloves complying with EN 374: Butyl rubber. Nitril rubber. Use chemical resistant gloves (EN 374): Butyl rubber. Protective gloves complying with EN 374: Neoprene. Nitrile rubber. Recommended glove material for mixed product: Protective gloves complying with EN 374: Butyl rubber. Nitril rubber.

Body Protection: Long sleeved clothing.

Remove and wash contaminated clothing before re-use.

**OTHER PROTECTIVE EQUIPMENT:** Ensure that eyewash stations and safety showers are close to the workstation location. **ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas.

# 9. Physical and Chemical Properties

9.1	Information on basic physical and chemical properties	
	Appearance:	Black paste
	Dhusiaal State	<b>D</b> .

Odor	Sulfur
Odor threshold	Not determined
рН	Not determined
Melting point / freezing point (°C)	Not determined
Boiling point/range (°C)	220 - N.D.
Flash Point, (°F / °C)	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits - %(V)	Not determined
Vapour Pressure	Not determined
Vapour density	Not determined
Relative density	1.13
Solubility in / Miscibility with water	Not determined
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
Viscosity	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined
Other information	
VOC Content g/I:	Not determined
Specific Gravity (g/cm3)	1.130

# 10. Stability and Reactivity

#### 10.1 Reactivity

9.2

No reactivity hazards known under normal storage and use conditions. No reactivity hazards known under recommended storage and use conditions.

#### 10.2 Chemical stability

Stable under recommended storage conditions. Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

No reactivity hazards known under recommended storage and use conditions. No reactivity hazards known under normal storage and use conditions.

# 10.4 Conditions to avoid

No Information

# 10.5 Incompatible materials

Strong oxidizing agents. Keep away from strong oxidising agents and strongly acid or alkaline materials.

#### 10.6 Hazardous decomposition products

In case of fire or hot work operations, hazardous decomposition products may be formed such as: Carbon monoxide (CO), carbon dioxide (CO2), oxides of nitrogen (NOx). Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), aliphatic amines, aldehydes. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), aliphatic amines, aldehydes. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), aliphatic amines, aldehydes.

# 11. Toxicological Information

#### 11.1 Information on toxicological effects

Acute Toxicity:	
Oral LD50:	No information available.
Inhalation LC50:	No information available.
Irritation:	No information available.
Corrosivity:	No information available.
Sensitization:	No information available.
Repeated dose toxicity:	No information available.
Carcinogenicity:	No information available.
Mutagenicity:	No information available.
Toxicity for reproduction:	No information available.
STOT-single exposure:	No information available.
STOT-repeated exposure:	No information available.
Aspiration hazard:	No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
84852-15-3	4-nonylphenol, branched	580 mg/kg oral rat			0.000	0.000
90-72-2	2,4,6-tris(dimethylaminomethyl) phenol	1000 mg/kg oral	1280 mg/kg		0.000	0.000
140-31-8	2-piperazin-1-ylethylamine	2108 mg/kg, oral, rat	866 mg/kg rabbit		0.000	0.000
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	4750 mg/kg oral, rat	8550		0.000	0.000
1333-86-4	carbon black	>15400 mg/kg oral, rat			0.000	3.6

#### Additional Information:

Corrosive - causes irreversible eye damage. Constituents of this product may include crystalline silica which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimis exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems. Chronic exposure causes drying effect on the skin and eczema. Inhalation of vapour or mist can cause headache, nausea, irritation of nose, throat, and lungs. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Corrosive to skin.

# 12. Ecological Information

12.1	Toxici	ty:				
	EC	50 48hr (Daphnia):	No inform	nation		
	IC5	0 72hr (Algae):	No inforr	mation		
	LC	50 96hr (fish):	No inform	mation		
12.2	Persis	stence and degradability:	No inform	mation		
12.3 Bioaccumulative potential:		No information				
12.4	Mobili	ty in soil:	No information			
12.5 Results of PBT and vPvB assessment:		The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.				
12.6	Other	adverse effects:	No inform	mation		
CAS-	<u>No.</u>	Chemical Name	<u> </u>	EC50 48hr	<u>IC50 72hr</u>	<u>LC50 96hr</u>
84852	2-15-3	4-nonylphenol, branched	.(	035 mg/L	.0563 mg/L	.1383 mg/l
90-72	-2	2,4,6-tris(dimethylaminomethyl)phenol	Ν	lo information	No information	
140-3	1-8	2-piperazin-1-ylethylamine	5	58 mg/l	>1000 mg/L	2190 mg/l
68953	3-36-6	Fatty acids, tall-oil, reaction products wi tetraethylenepentamine	th N	lo information	No information	
11292	26-00-8	hydrated, amorphous silica	Ν	lo information	No information	
1333-	86-4	carbon black	Ν	lo information	No information	
40	<b>.</b> .	e e el O e u el de ue tie u e				

# 13. Disposal Considerations

**13.1 WASTE TREATMENT METHODS:** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

# 14. Transport Information

14.1	UN number	UN1760
14.2	UN proper shipping name	Corrosive liquids, n.o.s.
	Technical name	Aliphatic amines, Alkylphenol
14.3	Transport hazard class(es)	8
	Subsidiary shipping hazard	Not applicable
14.4	Packing group	PG II
14.5	Environmental hazards	Yes (Nonylphenol)
14.6	Special precautions for user	Not applicable
	EmS-No.:	Not applicable
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable

# 15. Regulatory Information

Safety, health and environmental regulations/legislation for the substance or mixture:

# U.S. Federal Regulations: As follows -

## **CERCLA - Sara Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Reproductive toxicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization

## Sara Section 313:

 This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the U.S.

 Superfund Amendment and Reauthorization Act (SARA) of 1986 and 40 CFR part 372:

 Chemical Name
 <u>%</u>

4-nonylphenol, branched

#### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

84852-15-3

13.06

<u>Chemical Name</u>	<u>CAS-No.</u>
4-nonylphenol, branched	84852-15-3
Ortho Nonyl Phenol	91672-41-2

## U.S. Clean Air Act:

EPA Coating Category:	Not applicable
EPA VOC Content Limit (g/l):	Not determined
Product VOC Content (g/l)	Not applicable
Thinning Recommendations:	Not applicable
Application Recommendations:	Not applicable

\* As per the federal EPA definition for coating categories in 40 CFR 59.401.

\*\* Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.

# U.S. State Regulations: As follows -

#### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	<u>CAS-No.</u>
Proprietary ingredient	
hydrophobic silicon dioxide	67762-90-7

#### Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS-No.
Proprietary ingredient	
hydrophobic silicon dioxide	67762-90-7

## California Proposition 65:

WARNING: Cancer - www.P65Warnings.ca.gov

No Proposition 65 Reproductive Toxins exist in this product.

# International Regulations: As follows -

## \* Canadian DSL:

All chemical ingredients included on inventory or exempt.

# 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

# 16. Other Information

# Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

10/(10)	
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
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.

#### Reasons for revision

Substance and/or Product Properties Changed in Section(s): 01 - Identification 02 - Hazard Identification 03 - Composition/Information On Ingredients 09 - Physical and Chemical Properties 11 - Toxicological Information 14 - Transportation Information 15 - Regulatory Information Composition Information Changed Substance CAS Number Changed Substance Regulatory CAS Number Changed Substance Chemical Name Changed Substance Hazardous Flag Changed Substance Hazard Threshold % Changed Revision Statement(s) Changed

This is a new Safety Data Sheet (SDS). .

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration

PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as
	modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects
IMO	International Maritime Organization
Note P:	The classification as a carcinogen or mutagen need not apply; the substance
	contains less than 0,1 % w/w benzene
Note 10:	The classification as a carcinogen by inhalation applies only to mixtures in
	powder form containing 1 % or more of titanium dioxide which is in the form of
	or incorporated in particles with aerodynamic diameter $\leq$ 10 µm.
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For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.