

Printing date 03/14/2018 Reviewed on 06/20/2017

## 1 Identification

- · Product identifier
- · Trade name: 38008 Rust Shield Gloss Enhancer
- · Article number: 38008
- · Application of the substance / the mixture Coating
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SEM Products Inc. 1685 Overview Drive Rock Hill, SC 29730

803 207 8225

· Information department:

cust\_care@semproducts.com : SEM Products,Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT

· Emergency telephone number: CHEMTREC 1-800-424-9300

## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT SE 2 H371 May cause damage to organs.



# GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02 GHS07

7 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling: HDI Prepolymer

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acc. to OSHA HCS



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n-butyl acetate

hexamethylene-di-isocyanate

### · Hazard statements

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H371 May cause damage to organs.

### · Precautionary statements

P210	Keen away	from heat/s	parks/open	flames/hot sur	faces No smoking.

Keep container tightly closed. P233

P240 Ground/bond container and receiving equipment.

P241 *Use explosion-proof electrical/ventilating/lighting/equipment.* 

P242 *Use only non-sparking tools.* 

P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 [In case of inadequate ventilation] wear respiratory protection. P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for P304+P341

breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P308+P311 IF exposed or concerned: Call a poison center/doctor. P362+P364 Take off contaminated clothing and wash it before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P337+P313 If eye irritation persists: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

regulations.

## · Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2Fire = 3Reactivity = 0

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· HMIS-ratings (scale 0 - 4)

HEALTH \*2 Health = \*2FIRE 3 Fire = 3REACTIVITY 0 Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

*Mixture: consisting of the following components.* 

Weight percentages

· Dangerous components:		
28182-81-2	HDI Prepolymer	70-100%
123-86-4	n-butyl acetate	10-13%
1330-20-7	xylene	10-13%
822-06-0	hexamethylene-di-isocyanate	≥0.1-<0.5%

## 4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.

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- · Advice for firefighters
- · Protective equipment: No special measures required.

## 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:			
28182-81-2	HDI Prepolymer	7.8 mg/m <sup>3</sup>	
123-86-4	n-butyl acetate	5 ppm	
1330-20-7	xylene	130 ppm	
822-06-0	hexamethylene-di-isocyanate	0.018 ppm	
· PAC-2:			
28182-81-2	HDI Prepolymer	86 mg/m³	
123-86-4	n-butyl acetate	200 ppm	
1330-20-7	xylene	920* ppn	
822-06-0	6-0 hexamethylene-di-isocyanate 0.2 ppr		
· PAC-3:			
28182-81-2	HDI Prepolymer	510 mg/m <sup>3</sup>	
123-86-4	n-butyl acetate	3000* ppn	
1330-20-7	xylene	2500* ppn	
822-06-0	hexamethylene-di-isocyanate	3 ppm	

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.

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- · Further information about storage conditions: Keep receptacle tightly sealed.
- $\cdot$  *Specific end use*(s) *No further relevant information available.*

## 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At th	is time, the remaining constituent has no known exposure limits.
123-	86-4 n-butyl acetate
PEL	Long-term value: 710 mg/m³, 150 ppm
REL	Long-term value: 950 mg/m³, 200 ppm
TLV	Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm
1330	-20-7 xylene
PEL	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI
822-	06-0 hexamethylene-di-isocyanate
REL	Long-term value: $0.035 \text{ mg/m}^3$ , $0.005 \text{ ppm}$ Ceiling limit value: $0.14* \text{ mg/m}^3$ , $0.02* \text{ ppm}$ *10-min
TLV	Long-term value: 0.034 mg/m³, 0.005 ppm BEI
Ingr	edients with biological limit values:
1330	-20-7 xylene
	1.5 g/g creatinine Medium: urine Time: end of shift

Time: end of shift

Parameter: Methylhippuric acids

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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#### · Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## · Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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· Information on	hasic physical	and chamical	nronorties
· miormanon on	pasic privsicai	ana cnemicai	properties

· General Information

· Appearance:

Form: Liquid

*Color:* According to product specification

Odor: CharacteristicOdor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 124-128 °C

· Flash point:  $27 \, ^{\circ}C$ 

· Flammability (solid, gaseous): Not applicable.

• Ignition temperature: 370 °C

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

• Danger of explosion: In use, may form flammable/explosive vapour-air mixture.

· Explosion limits:

 Lower:
 1.1 Vol %

 Upper:
 7.5 Vol %

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· Vapor pressure at 20 °C:	10.7 hPa	
· Density at 20 °C:	1.06034 g/cm³	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	24.9 %	
VOC content:	24.90 %	
	264.0 g/l / 2.20 lb/gl	
Solids content:	75.0 %	
· Other information	No further relevant information available.	

# 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

l	· LD/LC50 values that are relevant for classification:				
	28182-81-2 HDI Prepolymer				
Γ	Oral	LD50	1,000 mg/kg (rat)		
	Dermal	LD50	5,000 mg/kg (rabbit)		
	Inhalative	LC50/4 h	LC50/4 h   137-1,150 mg/l (rat)		
Γ	1330-20-7 xylene				
Γ	Oral	LD50	4,300 mg/kg (rat)		
	Dermal	Dermal LD50 2,000 mg/kg (rabbit)			
Inhalative   LC50/4 h   137-1,150 mg/l (rat)   1330-20-7 xylene   Oral   LD50   4,300 mg/kg (rat)		137-1,150 mg/l (rat) 4,300 mg/kg (rat)			

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.

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· Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

1330-20-7 xylene

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

- · UN-Number
- · DOT, ADR, IMDG, IATA

UN1866

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(Contd. of page 8) · UN proper shipping name  $\cdot DOT$ Resin solution  $\cdot ADR$ 1866 Resin solution  $\cdot$  IMDG RESIN SOLUTION (HDI Prepolymer)  $\cdot$  IATA RESIN SOLUTION · Transport hazard class(es)  $\cdot DOT$ · Class 3 Flammable liquids · Label · ADR, IATA · Class 3 Flammable liquids · Label · IMDG · Class 3 Flammable liquids · Label · Packing group · DOT, ADR, IMDG, IATA III· Environmental hazards: Product contains environmentally hazardous substances: HDI Prepolymer Yes · Marine pollutant: Symbol (fish and tree) · Special precautions for user Warning: Flammable liquids · EMS Number: F-E,S-E · Stowage Category · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L

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 $\cdot ADR$ 

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· IMDG

· Limited quantities (LQ) 5L· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 1866 RESIN SOLUTION, 3, III

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7 xylene

822-06-0 hexamethylene-di-isocyanate

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

1330-20-7 xylene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

1330-20-7 xylene

Ι

· TLV (Threshold Limit Value established by ACGIH)

1330-20-7 xylene

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

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### · Hazard pictograms







GHS07

## · Signal word Danger

## · Hazard-determining components of labeling:

HDI Prepolymer *n-butyl* acetate

hexamethylene-di-isocyanate

#### · Hazard statements

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H371 May cause damage to organs.

#### · Precautionary statements

· r recautionary s	taiements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth. P330

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P308+P311	IF exposed or concerned: Call a poison center/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.

If experiencing respiratory symptoms: Call a poison center/doctor. P342+P311

Wash contaminated clothing before reuse. P363

P370+P378 *In case of fire: Use for extinction: CO2, powder or water spray.* 

Store in a well-ventilated place. Keep cool. P403+P235

P405 Store locked up.

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

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact: Rita Joiner (rjoiner@semproducts.com)
- · Date of preparation / last revision 03/14/2018 / 8
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

 $DOT: \ US \ Department \ of \ Transportation$ 

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

\* Data compared to the previous version altered.

USA