

# Safety Data Sheet

# prepared to UN GHS Revision 3

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

1.1 Product Identifier 204-TCW-A-FORMULA Revision Date: 03/20/2015

Product Name: Peran TCW Base A Clear Supercedes Date: 07/28/2014

1.2 Relevant identified uses of the substance or mixture and uses

advised against

Base component of 2 components coatings - Industrial use.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Flowcrete North America, Inc.

616 Spring Hill Drive, Suite 100

Spring, TX 77386

americas@ flowcrete.com www.flowcreteamericas.com

Tel: (936) 539-6700 Fax: (936) 539-6701

Datasheet Produced by: Anderson, Paul - americas@ flowcrete.com

1.4 Emergency telephone number: CHEMTREC +1 703 5273887 (Outside US)

## 2. Hazard Identification

2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, Chronic, category 2 Carcinogenicity, category 1A Eye Irritation, category 2 Skin Irritation, category 2 Skin Sensitizer, category 1

### 2.2 Label elements

# Symbol(s) of Product







## Signal Word

Danger

### Named Chemicals on Label

reaction product bisphenol-a-(epichlorhydrin) epoxy resin (number average molecularweight  $\leftarrow$  700), oxirane, mono [(c12-14-alkyloxy)methyl] derivs.

### HAZARD STATEMENTS

Hazardous to the aquatic environment, Chronic, category 2	H411	Toxic to aquatic life with long lasting effects.
Carcinogenicity, category 1A	H350-1A	May cause cancer.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
PRECAUTION PHRASES		
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P273	Avoid release to the environment
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P284	Wear respiratory protection.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	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 P332+313	IF exposed or concerned: Get medical advice /attention If skin irritation occurs: Get medical advice /attention.
	P333+313 P391	If skin irritation or rash occurs: Get medical advice /attention. Collect spillage.

# 2.3 Other hazards

Not applicable

Results of PBT and vPvB assessment

The product does not meet the criteria for PBT  $\ensuremath{\mathcal{N}}$  PvB in accordance with Annex XIII.

# 3. Composition/Information On Ingredients

### 3.2 Mixtures

Hazardous Ingredients

CAS-No. Chemical Name

25068-38-6	reaction product bisphenol-a-(epichlorhydrin) epoxy resin (number average molecularweight <= 700)	75-100
68609-97-2	oxirane, mono[(c12-14-alkyloxy)methyl] derivs.	2.5-10
100-51-6	benzyl alcohol	2.5-10
64742-46-7	distillates (petroleum), hydrotreated middle	0.1-1.0

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
25068-38-6	GHS07-GHS09	H315-317-319-411	0
68609-97-2	GHS07	H315-317	0
100-51-6	GHS07	H302-319-332	0
64742-46-7	GHS08	H350	0

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.

AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.

AFTER SKIN CONTACT: Use a mild soap if available. 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: Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do NOT induce vomiting. 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

Irritating to skin. May cause sensitization by skin contact Prolonged or repeated exposure increases the risk. Harmful to aquatic organisms.

4.3 Indication of any immediate medical attention and special treatment needed

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: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture

No Information

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. High volume water jet 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. Contains epoxy constituents. See information supplied by the manufacturer.

### 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. 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 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. Wear personal protective equipment

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: Extremes of temperature and direct sunlight

STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight

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)

Name <u>% OSHAPEL Company</u> TLV

reaction product bisphenol-a-(epichlorhydrin) 75-100

epoxy resin (number average molecularweight

<= 700)

oxirane, mono[(c12-14-alkyloxy)methyl] derivs. 2.5-10 benzyl alcohol 2.5-10 distillates (petroleum), hydrotreated middle 0.1-1.0

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.

EYE PROTECTION: Safety glasses.

HAND PROTECTION: Rubber or plastic gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-

use. Rubber or plastic apron.

OTHER PROTECTIVE EQUIPMENT: No Information

 ${\tt ENGINEERING\ CONTROLS: Avoid\ contact\ with\ skin,\ eyes\ and\ clothing.\ Ensure\ adequate\ ventilation,\ especially\ in\ confined}$ 

999 - 0

areas.

## 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Transparent Resin

Physical State Liquid

Odor Weak Epoxy

Odor threshold Not determined

pH Non-aqueous

Melting point / freezing point (°C)

Not determined

Boiling point/range (°C) N.D. - N.D.

Flash Point, (°C) 93

E vaporation rate Not determined

Flammability (solid, gas) Not determined

 ${\tt Upper/lower\ flammability\ or\ explosive}$ 

limits

Vapour Pressure Not determined

Vapour density 1.16 g/cm3

Relative density Not determined

Solubility in / Miscibility with water Insoluble

Partition coefficient n-octanol/water Not determined

Auto-ignition temperature (°C) Not determined

Decomposition temperature (°C) Not determined

Viscosity Not determined

Explosive properties N/A
Oxidising properties N/A

9.2 Other information

VOC Content g/l: 20Specific Gravity (g/cm3) 0.120

## 10. Stability and Reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed. Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4 Conditions to avoid

Extremes of temperature and direct sunlight

#### 10.5 Incompatible materials

Strong oxidizing agents. Acids and bases.

### 10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours. Alcohols. Exothermic reaction. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

## 11. Toxicological Information

### 11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:

Inhalation LC 50:

Irritation: Irritating to eyes, skin, mouth and pharynx.

Corrosivity: No information available.

Sensitization: Prolonged or repeated skin contact may result in allergic eczema.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: 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.	<u>Chemical Name</u>	Oral LD 50	<u>Dermal LD50</u>	Vapor LC 50
25068-38-6	reaction product bisphenol-a-(epichlorhydrin) epoxy resin (number average molecularweight <= 700)	>2000 mg/kg, rat, oral	>2000 mg/kg, rat	
68609-97-2	oxirane, mono[(c12-14-alkyloxy)methyl] derivs.	17100 mg/kg, oral, rat		
100-51-6	benzyl alcohol	1230 mg/kg rat, oral		1000 ppm /8 hrs rat, inhalation
64742-46-7	distillates (petroleum), hydrotreated middle	3160 mg/kg rabbit oral		

Additional Information:

No Information

## 12. Ecological Information

12.1 Toxicity:

E C 50 48hr (Daphnia):

IC 50 72hr (Algae):

No information

No information

No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB The product does not meet the criteria for PBT WPvB in accordance with Annex XIII.

assessment

12.6 Other adverse effects: No information

CAS-No. Chemical Name <u>EC50 48hr</u> IC 50 72hr LC 50 96hr reaction product bisphenol-a-(epichlorhydrin) 25068-38-6 epoxy resin (number average molecularweight No information No information oxirane, mono[(c12-14-alkyloxy)methyl] 68609-97-2 No information No information derivs. benzyl alcohol 100-51-6 No information No information 64742-46-7 distillates (petroleum), hydrotreated middle No information No information

## 13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

14.1 UN number UN3082

14.2 UN proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S.

Technical name Epoxy Resin

14.3 Transport hazard class(es) 9

Subsidiary shipping hazard N/A

14.4 Packing group14.5 Environmental hazards18.6 Yes

14.6 Special precautions for user Not applicable

EmS-No.:

14.7 Transport in bulk according to Annex II Not applicable

of MARPOL 73/78 and the IBC code

## Regulatory Information

15.1 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:

Acute Health Hazard

#### 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 components exist in this product

#### 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: Floor Coatings

EPA VOC Content Limit (g/l):400Product VOC Content (g/l)<20Thinning Recommendations:None

Application Recommendations: For professional use only.

## 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.

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

No Chemical Name Found

### Pennsylvania Right-To-Know

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

No PA Right-To-Know components exist in this product

## California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

No Proposition 65 Carcinogens exist in this product

Warning: The following ingredients present in the product are known to the State of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product

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

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

## 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.

### Other Information

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

H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H332 Harmful if inhaled. H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects.

#### Reasons for revision

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 ESIS (The European Chemical Substances Information System), provided by the European Commission Joint Research Centre in Ispra, Italy

Annex VI of the EU Council Directive 67/548/EEC

Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation)

EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

#### 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

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 to UN GHS Revision 3

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

1.1 Product Identifier 204-TCW-B-1GAL Revision Date: 03/20/2015

Product Name: Peran TCW Hardener B Supercedes Date: 08/25/2014

1.2 Relevant identified uses of the substance or mixture and uses

advised against

Component of multicomponent industrial coatings - Industrial use.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Flowcrete North America, Inc.

616 Spring Hill Drive, Suite 100

Spring, TX 77386

americas@ flowcrete.com www.flowcreteamericas.com

Tel: (936) 539-6700 Fax: (936) 539-6701

Datasheet Produced by: Anderson, Paul - americas@ flowcrete.com

1.4 Emergency telephone number: CHEMTREC +1 703 5273887 (Outside US)

## 2. Hazard Identification

2.1 Classification of the substance or mixture

Acute Toxicity, Oral, category 4
Acute Toxicity, Inhalation, category 4
Hazardous to the aquatic environment, Chronic, category 3
Skin Corrosion, category 1
Skin Sensitizer, category 1

### 2.2 Label elements

# Symbol(s) of Product



## Signal Word

Danger

### Named Chemicals on Label

benzyl alcohol, benzene-1, 3-dimethanamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine

## HAZARD STATEMENTS

Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Hazardous to the aquatic environment,	H412	Harmful to aquatic life with long lasting effects.
Chronic, category 3		
Skin Corrosion, category 1	H314-1	Causes severe skin burns and eye damage.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
PRECAUTION PHRASES		
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P264	Wash hands thoroughly after handling.
	P270	Do no eat, drink or smoke when using this product
	P273	Avoid release to the environment
	P280	Wear protective gloves/protective clothing/eye protection/
		face protection.
	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.
	P333+313	If skin irritation or rash occurs: Get medical advice /attention.

## 2.3 Other hazards

Not applicable

Results of PBT and vPvB assessment

The product does not meet the criteria for PBT  $\mathcal{N}\text{PvB}$  in accordance with Annex XIII.

# 3. Composition/Information On Ingredients

### 3.2 Mixtures

## Hazardous Ingredients

CAS-No.	<u>Chemical Name</u>	<u>%</u>
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	25-50
100-51-6	benzyl alcohol	25-50
1477-55-0	benzene-1, 3-dimethanamine	10-25

<u>CAS-No.</u>	<u>GHS Symbols</u>	GHS Hazard Statements	M-Factors
100-51-6	GHS07	H302-319-332	0

2855-13-2 GHS05-GHS07 H302-312-314-317-412 0 1477-55-0 GHS05-GHS06 H302-314-317-331-412 0

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.

AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. 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 severe burns. Harmful in contact with skin and if swallowed. Irritating to eyes and respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed

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: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture No Information

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. High volume water jet 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

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.

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 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. Wear personal protective equipment. Do not breathe vapours or spray mist.

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: Direct sources of heat

STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight

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)

Name <u>% OSHAPEL Company</u> TLV

3-aminomethyl-3,5,5-trimethylcyclohexylamine 25-50 benzyl alcohol 25-50 benzene-1, 3-dimethanamine 10-25

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

### 8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Respirator with filter for organic vapor.

EYE PROTECTION: Safety glasses.

HAND PROTECTION: Rubber or plastic gloves. Long sleeved clothing. Remove and wash contaminated clothing before reuse. Rubber or plastic apron.

OTHER PROTECTIVE EQUIPMENT: No Information

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

## 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Light Yellow - Clear

Physical State Liquid

Odor Amine Like

Odor threshold Not determined

pH 11-12

Melting point / freezing point (°C) Not determined

Boiling point/range (°C) 302 F - N.D.

Flash Point, (°C) 93

E vaporation rate Not determined Flammability (solid, gas) Not determined

Upper/lower flammability or explosive 999 - 0

limits

Vapour Pressure Not determined
Vapour density ca. 1.05 g/cm3
Relative density Not determined

Solubility in / Miscibility with water Limited

Partition coefficient n-octanol/water Not determined

Auto-ignition temperature (°C) Not determined

Decomposition temperature (°C) Not determined

Viscosity Not determined

Explosive properties N/A

Oxidising properties Not determined

9.2 Other information

VOC Content g/l: 12
Specific Gravity (g/cm3) 0.120

## 10. Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation may occur.

10.4 Conditions to avoid

Direct sources of heat.

10.5 Incompatible materials Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

## 11. Toxicological Information

### 11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:

Inhalation LC50:

Irritation: No information available.

Corrosivity: Causes burns. Dehydrating on skin. Eye contact may cause irreversible damage.

Sensitization: Prolonged or repeated skin contact may result in allergic eczema.

No information available. Repeated dose toxicity:

Carcinogenicity: No information available.

Mutagenicity: No information available.

No information available. Toxicity for reproduction:

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. Oral LD50 Dermal LD50 Vapor LC 50 **Chemical Name** 1000 ppm /8 hrs rat, 100-51-6

benzyl alcohol 1230 mg/kg rat, oral

500 mg/kg oral

inhalation

3-aminomethyl-3,5,5-2855-13-2

trimethylcyclohexylamine

1477-55-0 benzene-1, 3-dimethanamine 1514 mg/kg, oral

Additional Information:

No Information

# 12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia): No information No information IC50 72hr (Algae): No information LC50 96hr (fish):

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB

assessment

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

12.6 Other adverse effects:

No information

<u>CAS-No.</u> <u>Chemical Name</u> <u>EC 50 48hr</u> <u>IC 50 72hr</u> <u>LC 50 96hr</u>

3-aminomethyl-3,5,5trimethylcyclohexylamine

No information No information

100-51-6 benzyl alcohol No information No information
1477-55-0 benzene-1, 3-dimethanamine No information No information

## 13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

14.1 UN number UN2735

14.2 UN proper shipping name Amines, Liquid, Corrosive, N.O.S.

Technical name Benzene-1,3-Dimethanamine, 3-aminomethyl-3,5,5,-

trimethylcyclohexylamine

14.3 Transport hazard class(es) 8

Subsidiary shipping hazard N/A

14.4 Packing group PG III

14.5 Environmental hazards RQ 1001 lbs.

14.6 Special precautions for user Not applicable

EmS-No.:

14.7 Transport in bulk according to Annex II

of MARPOL 73/78 and the IBC code

Not applicable

## 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:

Acute Health Hazard

#### 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 components exist in this product

#### 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: Floor Coatings

EPA VOC Content Limit (g/l): 400
Product VOC Content (g/l) 12
Thinning Recommendations: None

Application Recommendations: For professional use only.

- \* 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.

<u>Chemical Name</u> <u>CAS-No.</u>

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> <u>CAS-No.</u>

No Chemical Name Found

### California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

No Proposition 65 Carcinogens exist in this product

Warning: The following ingredients present in the product are known to the State of California to cause birth defects, or other reproductive hazards.

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.

## Other Information

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

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

#### Reasons for revision

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

ESIS (The European Chemical Substances Information System), provided by the European Commission

Joint Research Centre in Ispra, Italy

Annex VI of the EU Council Directive 67/548/EEC

Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of

substances and mixtures (CLP Regulation)

EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

### 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

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.