

SAFETY DATA SHEET

Issue Date 08-Jun-2015

Revision Date 28-Oct-2015

Version 1

1. IDENTIFICATION		
Product identifier		
Product Name	Tuffbond 3661A	
Other means of identification		
Product Code	MS-3661A	
UN/ID no.	None	
Synonyms	None	
Recommended use of the chem	ical and restrictions on use	
Recommended Use	Epoxy Adhesive.	
Uses advised against	None known	
Details of the supplier of the sa	fety data sheet	
Manufacturer Address		
Hernon Manufacturing Inc.		
121 Tech Drive		
Sanford, FL 32771		
800-527-0004		
Emergency telephone number		
Company Phone Number	407-322-4000	
Emergency Telephone	Chemtel 800-255-3924	

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Category 4	

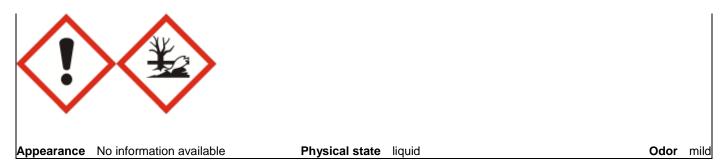
Label elements

Emergency Overview

Warning	
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Hazard statements

Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause respiratory irritation Toxic to aquatic life with long lasting effects



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace Keep away from flames and hot surfaces. - No smoking

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap Take off contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical advice/attention In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Epoxy Resin / Bisphenyl A epoxy resin	25068-38-6	60-70	*
Calcined Alumina	1344-28-1	30-50	*
Aluminum Silicate	66402-68-4	5-10	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash with soap and water. Flush skin with water for several minutes. Remove

	contaminated clothing and shoes. If irritation develops, seek medical attention. Wash clothing before reuse.	
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use CO2, dry chemical, or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Irritating organic vapors.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.
For emergency responders	Use personal protection recommended in Section 8.
Environmental precautions	
Environmental precautions	Do not allow into any sewer, on the ground or into any body of water. Collect spillage. See Section 12 for additional ecological information.
Methods and material for containme	ent and cleaning up
Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Soak up with inert absorbent material. Store in a closed container until ready for disposal.
7. HANDLING AND STORAGE	

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly after handling. Ensure adequate ventilation, especially in confined areas.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep at temperatures between 46° and 82 °F.

None.

Incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcined Alumina	TWA: 1 mg/m ³ respirable fraction	TWA: 15 mg/m ³ total dust	-
1344-28-1		TWA: 5 mg/m ³ respirable fraction	
		(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³ respirable	
		fraction	
Aluminum Silicate	STEL: 10 mg/m ³ Zr	TWA: 5 mg/m ³ Zr	IDLH: 25 mg/m ³ Zr
66402-68-4	TWA: 5 mg/m ³ Zr TWA: 0.02 mg/m ³	(vacated) TWA: 5 mg/m ³ Zr	TWA: 5 mg/m ³ except Zirconium
	Mn respirable fraction	(vacated) STEL: 10 mg/m ³ Zr	tetrachloride Zr
	TWA: 0.1 mg/m ³ Mn inhalable	-	STEL: 10 mg/m ³ Zr
	fraction		_

Appropriate engineering controls

Engineering Controls	Showers
	Eyewash stations
	Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear protective gloves and protective clothing. Use rubber or plastic gloves.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	liquid No information available white	Odor Odor threshold	mild No information available
<u>Property</u> pH Melting point / freezing point Boiling point / boiling range	<u>Values</u> Does not apply No information available > 149 °C / 300 °F	<u>Remarks • Method</u>	

Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative density** Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature **Kinematic viscosity** Dynamic viscosity **Explosive properties Oxidizing properties**

Other Information

Softening point Molecular weight VOC Content (%) Density **Bulk density**

No information available No information available No information available No information available > 50 mm at 80°F No information available 1.58 slightly soluble No information available No information available

> 93 °C / 200 °F

No information available No information available 0.2 % No information available No information available

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability Stable under recommended storage conditions. Possibility of Hazardous Reactions None under normal processing. Conditions to avoid None known. Incompatible materials None. **Hazardous Decomposition Products** None.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No data available
Inhalation	No data available.
Eye contact	Irritating to eyes.
Skin contact	May cause skin irritation and/or dermatitis.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Epoxy Resin / Bisphenyl A epoxy resin	= 11400 mg/kg (Rat)	-	-

25068-38-6			
Calcined Alumina	> 5000 mg/kg (Rat)	-	-
1344-28-1			

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.ATEmix (oral)8,339.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

Chemical Name	California Hazardous Waste Status
Aluminum Silicate	Toxic
66402-68-4	

14. TRANSPORT INFORMATION

DOT UN/ID no. Proper shipping name Hazard Class

Not regulated None Not regulated None

Packing Group	None
Special Provisions	None
IATA	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
IMDG	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
<u>RID</u>	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
<u>ADR</u> UN/ID no. Proper shipping name Hazard Class Packing Group Special Provisions	Not regulated None Not regulated None None None

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

All ingredients are on the inventory or are exempt from listing.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
Calcined Alumina - 1344-28-1	1.0	
Aluminum Silicate - 66402-68-4	1.0	
SARA 311/312 Hazard Categories		
Acute health hazard	No	
Chronic Health Hazard	No	
Fire hazard	No	
Sudden release of pressure hazard	No	
Reactive Hazard	No	

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Aluminum Silicate 66402-68-4	-	Х	-	-
00402-08-4				

<u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Calcined Alumina 1344-28-1	Х	Х	Х
Aluminum Silicate 66402-68-4	Х	-	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 0	Flammability 0	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X

Prepared BySDS coordinatorIssue Date08-Jun-2015Revision Date28-Oct-2015Revision NoteNo information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



SAFETY DATA SHEET

Issue Date 08-Jun-2015

Revision Date 28-Oct-2015

Version 1

	1. IDENTIFICATION		
Product identifier			
Product Name	Tuffbond 3661B		
Other means of identification			
Product Code	MS-3661B		
UN/ID no.	None		
Synonyms	None		
Recommended use of the chem	nical and restrictions on use		
Recommended Use	Hardener.		
Uses advised against	None known		
Details of the supplier of the sa	fety data sheet		
Manufacturer Address			
Hernon Manufacturing Inc.			
121 Tech Drive			
Sanford, FL 32771			
800-527-0004			
Emergency telephone number			
Company Phone Number	407-322-4000		
Emergency Telephone	Chemtel 800-255-3924		

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

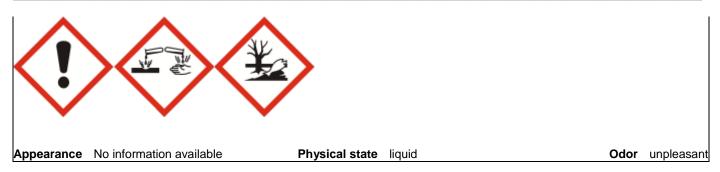
Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Category 4	

Label elements

Emergency Overview

Warning

Hazard statements Harmful in contact with skin Harmful if swallowed Causes severe skin burns and eye damage May cause an allergic skin reaction Harmful to aquatic life with long lasting effects



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dusts or mists Contaminated work clothing must not be allowed out of the workplace Keep away from flames and hot surfaces. - No smoking

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth Do NOT induce vomiting In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Calcined Alumina	1344-28-1	50-70	*
Aliphatic Amine	Proprietary	40-60	*
Carbon Black	1333-86-4	0.1-1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash with soap and water. Flush skin with water for several minutes. Remove contaminated clothing and shoes. If irritation develops, seek medical attention. Wash clothing before reuse.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	No information available.
Indication of any immediate medical attention and special treatment needed	
Note to physicians	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, dry chemical, dry sand, limestone powder.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products No information available.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions Do not allow into any sewer, on the ground or into any body of water. Dike to collect large liquid spills. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.	
Methods for cleaning up	Approach suspected leak areas with caution. Place in appropriate chemical waste container.	
	7. HANDLING AND STORAGE	
Precautions for safe handling		
Advice on safe handling	Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly after handling. Ensure adequate ventilation, especially in confined areas.	
Conditions for safe storage, including	ng any incompatibilities	
Storage Conditions	Keep at temperatures between 46° and 82 °F.	
Incompatible materials	Sodium hypochlorite. Organic acids. Mineral acids. Peroxides.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcined Alumina	TWA: 1 mg/m ³ respirable fraction		-
1344-28-1		TWA: 5 mg/m ³ respirable fraction	
		(vacated) TWA: 10 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³ respirable	
		fraction	
Carbon Black	TWA: 3 mg/m ³ inhalable fraction	n TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³
1333-86-4	-	(vacated) TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³
			TWA: 0.1 mg/m ³ Carbon black in
			presence of Polycyclic aromatic
			hydrocarbons PAH

Appropriate engineering controls

Engineering Controls	Showers
	Eyewash stations
	Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin and body protection	Wear protective gloves and protective clothing. Use rubber or plastic gloves.	
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.	
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color

Property
pH Molting point (freezing point
Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
Flammability Limit in Air
Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Relative density
Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
Oxidizing properties
exisizing properties

Other Information

Softening point Molecular weight VOC Content (%) Density Bulk density liquid No information available black

Values

Does not apply No information available > 149 °C / 300 °F > 93 °C / 200 °F No information available No information available No information available No information available <1 mm at 21°C No information available 1.66 Low No information available No information available

No information available No information available No information available No information available No information available

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Conditions to avoid
Storage near to reactive materials.
Incompatible materials
Sodium hypochlorite. Organic acids. Mineral acids. Peroxides.
Hazardous Decomposition Products
Nitric acid. Ammonia. Nitrogen oxides (NOx). Carbon monoxide. Carbon dioxide (CO2). Aldehydes. Hydrocarbons.

No information available

unpleasant

Remarks • Method

Odor threshold

Odor

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No data available
Inhalation	No data available.
Eye contact	Irritating to eyes.

Skin contact

May cause skin irritation and/or dermatitis.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Calcined Alumina 1344-28-1	> 5000 mg/kg (Rat)	-	-
Aliphatic Amine	= 2140 µL/kg (Rat)	= 880 µL/kg (Rabbit)	-
Carbon Black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicity Carcinogenicity	No information	No information available. No information available. No information available.			
Chemical Name	ACGIH	ACGIH IARC NTP OSHA			
Carbon Black 1333-86-4	A3	Group 2B	-	х	
Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard	No information	No information available. No information available. No information available. No information available.			

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	1,044.00 mg/kg	
ATEmix (dermal)	2,590.00 mg/kg	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Aliphatic Amine	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	32: 48 h Daphnia magna mg/L EC50
Carbon Black 1333-86-4	-	-	5600: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient		
Aliphatic Amine	-1.48		

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

14. TRANSPORT INFORMATION

DOT	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
IATA_ UN/ID no. Proper shipping name Hazard Class Packing Group Special Provisions	Not regulated None Not regulated None None
IMDG	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
<u>RID</u>	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
<u>ADR</u> UN/ID no. Proper shipping name Hazard Class Packing Group Special Provisions	Not regulated None Not regulated None None

International Inventories TSCA

15. REGULATORY INFORMATION

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Complies
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DSL/NDSL EINECS/ELINCS	Complies Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

All ingredients are on the inventory or are exempt from listing.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values % 1.0		
Calcined Alumina - 1344-28-1			
SARA 311/312 Hazard Categories			
Acute health hazard	No		
Chronic Health Hazard	No		
Fire hazard	No		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical Name	California Proposition 65			
CARBON BLACK - 1333-86-4	Carcinogen			
U.C. State Bight to Know Begulations				

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	
Calcined Alumina 1344-28-1	Х	Х	Х	
Aliphatic Amine	Х	X	Х	
Carbon Black 1333-86-4	Х	X	Х	

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards	0	Flammability	0	Instability 0	Physical and Chemical
HMIS	Health hazards	0	Flammability	0	Physical hazards 0	Properties - Personal protection X
Prepared By	SDS coordinator					
Issue Date	08-Jun-2015					
Revision Date	28-Oct-2015					
Revision Note						
No information available						
<u>Disclaimer</u>						
The information provide	d in this Matorial	I Safaty	Data Shoot is	corroct to	the best of our knowled	an information and holiof

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet