KIT - SAFETY DATA SHEET

ıct identifier used on the label:

ame **DEVCON® Plastic Steel® Putty (A)**

: No.: 10110

· means of identification:

mmended use of the chemical and restrictions on use:

ıical manufacturer address and telephone number:

facturer Name: ITW Polymers Adhesives, North America

ess: 30 Endicott Street
Danvers, MA 01923

Component list	
nponent B	PLASTIC STEEL PUTTY (A) RESIN
nponent A	Putty Hardener
SDS Revision Date	08/10/2015

Component B - SDS

TION 1 : IDENTIFICATION

luct identifier used on the label:

luct Name: **PLASTIC STEEL PUTTY (A) RESIN**

er means of identification:

onyms: None.

ommended use of the chemical and restrictions on use:

luct Use/Restriction: Not applicable.

mical manufacturer address and telephone number:

ufacturer Name: ITW

ress: 30 Endicott Street
Danvers, MA 01923

eral Phone Number:	(978) 777-1100
rgency phone number:	
rgency Phone Number:	(800) 424-9300
MTREC:	For emergencies in the US, call CHEMTREC: 800-424-9300

TION 2 : HAZARD(S) IDENTIFICATION

sification of the chemical in accordance with CFR 1910.1200(d)(f):

Pictograms:

nal Word:	WARNING.
Class:	Eye Irritation. Category 2. Skin Irritation. Category 2. Skin Sensitization. Category 1. Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.
ard Statements:	H319 - Causes serious eye irritation. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.
cautionary Statements:	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pres and easy to do. Continue rinsing. P312 - Call a POISON CENTER or doctor/physician if you feel unwell. P321 - P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

ards not otherwise classified that have been identified during the classification process:

te of Exposure:	Eyes. Skin. Inhalation. Ingestion.
ential Health Effects:	
ye:	Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause

	lacrimation, conjunctivitis, corneal damage and permanent injury.
;kin:	Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.
nhalation:	Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.
ngestion:	Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.
onic Health Effects:	Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.
ıs/Symptoms:	Overexposure can cause headaches, dizziness, nausea, and vomiting.
get Organs:	Eyes. Skin. Respiratory system. Digestive system.
ravation of Pre-Existing ditions:	Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

TION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

tures:

nical Name	CAS#	Ingredient Percent	EC Num.
	7439-89-6	53.4 - 59.1 by weight	
ium	7440-32-6	3.4 - 3.7 by weight	
ıenol A diglycidyl ether resin	25068-38-6	22.9 - 25.3 by weight	
nophillic clay	71011-26-2	2 - 2.3 by weight	
n	7440-21-3	10.9 - 12.1 by weight	
inum flake	7429-90-5	1.3 - 1.5 by weight	

TION 4 : FIRST AID MEASURES

cription of necessary measures:

Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes separating the eyelids with fingers. Get immediate medical attention.
ı Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothir and shoes. Get medical attention if irritation develops or persists.
ılation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. S immediate medical attention.
estion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anythin by mouth to an unconscious person.

TION 5 : FIRE FIGHTING MEASURES

:able and unsuitable extinguishing media:

:able Extinguishing Media:	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
uitable extinguishing media:	Water or foam may cause frothing.
sual Fire Hazards:	Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization. Heal above 300 deg F in the presence of air may cause slow oxidative decomposition and above 500 deg F may cause polymerization.

cial protective equipment and precautions for fire-fighters:

:ective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

TION 6 : ACCIDENTAL RELEASE MEASURES

sonal precautions, protective equipment and emergency procedures:

sonnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

ironmental precautions:

ironmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.

hods and materials for containment and cleaning up:

l Cleanup Measures:	Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After remova flush spill area with soap and water to remove trace residue. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment listed in Section 8.

erence to other sections:

er Precautions:	Pump or shovel to storage/salvage vessels.

TION 7 : HANDLING and STORAGE

:autions for safe handling:

dling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
iene Practices:	Wash thoroughly after handling.
cial Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

ditions for safe storage, including any incompatibilities:

rage: Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.

TION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

OSURE GUIDELINES:

on :

eline OSHA: PEL-TWA: 15 mg/m3 Total particulate/dust (T)
PEL-TWA: 5 mg/m3 Respirable fraction (R)

ninum flake :

eline ACGIH: TLV-TWA: 1 mg/m3 Respirable fraction (R)
TLV-TWA: 1 mg/m3 Respirable fraction (R)
TLV-TWA: 1 mg/m3 (R)

eline OSHA: PEL-TWA: 15 mg/m3 Total particulate/dust (T)
PEL-TWA: 5 mg/m3 Respirable fraction (R)

ropriate engineering controls:

ineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

vidual protection measures:

/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

ı Protection Description: Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

piratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provide by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for a uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

er Protective: Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety statio

ɛs : Only established PEL and TLV values for the ingredients are listed.

TION 9 : PHYSICAL and CHEMICAL PROPERTIES

SICAL AND CHEMICAL PROPERTIES:

sical State Appearance: Paste.

ɔr: Dark Gray

ır: Slight. odor.

ing Point: >500°F (260°C)

ting Point: Not determined.

cific Gravity:	2.8
ıbility:	negligible.
or Density:	>1 (air = 1)
or Pressure:	0.03 mmHg @171°F
:ent Volatile:	0
poration Rate:	<<1 (butyl acetate = 1)
	Neutral.
ecular Formula:	Mixture
ecular Weight:	Mixture
h Point:	>400°F (204.4°C)
h Point Method:	Pensky-Martens Closed Cup
er Flammable/Explosive Limit:	Not determined.
er Flammable/Explosive Limit:	Not determined.
ɔ Ignition Temperature:	Not determined.
: Content:	0 g/L

Other information:

ent Solids by Weight	100

TION 10 : STABILITY and REACTIVITY

mical Stability:

mical Stability:	Stable under normal temperatures and pressures.

sibility of hazardous reactions:

ardous Polymerization:	Not reported.

ditions To Avoid:

ditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Heating resin above 300 F in the presence of air may cause slow oxidative decomposition.

ɔmpatible Materials:

ɔmpatible Materials:	Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines).

TION 11 : TOXICOLOGICAL INFORMATION

ICOLOGICAL INFORMATION:

n :

estion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Nutritional and Gross Metabolic - Weight loss or decreased weight gain]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 750 mg/kg [Blood - Changes in serum composition (e.g., TP, bilirubin, cholesterol) Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - Transaminases] (RTECS)

phenol A diglycidyl ether resin :

: Administration into the eye - Rabbit Standard Draize test: 100 mg [Mild]
Administration into the eye - Rabbit Standard Draize test: 20 mg/24H [Moderate]
Administration into the eye - Rabbit Standard Draize test: 5 mg/24H [Severe] (RTECS)

n: Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >20 mL/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: >1200 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

estion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 10700 uL/kg [Details of toxic effects not reported other than letha dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 13600 mg/kg [Behavioral - Somnolence (general depressed activi Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 13.6 gm/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 11.4 gm/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Details of toxic effects not reported other than lethal d value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: >1 gm/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 11400 mg/kg [Behavioral - Somnolence (general depressed activi Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic (RTECS)

con :

: Administration into the eye - Rabbit Standard Draize test: 3 mg [Mild] (RTECS)

estion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 3160 mg/kg [Details of toxic effects not reported other than letha dose value] (RTECS)

TION 12 : ECOLOGICAL INFORMATION

toxicity:

toxicity: No ecotoxicity data was found for the product.

ironmental Fate: No environmental information found for this product.

TION 13 : DISPOSAL CONSIDERATIONS

cription of waste:

ste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

:A Number: Not determined.

TION 14 : TRANSPORT INFORMATION

r Shipping Name:	Non regulated.
r UN Number:	Not applicable.
r Hazard Class:	Not applicable.
r Packing Group:	Not applicable.

TION 15 : REGULATORY INFORMATION

ety, health and environmental regulations specific for the product:

n :

:A Inventory Status:	Listed
ada DSL:	Listed

inium :

:A Inventory Status:	Listed
ada DSL:	Listed

phenol A diglycidyl ether resin :

:A Inventory Status:	Listed
ada DSL:	Listed

anophillic clay :

:A Inventory Status:	Listed
ada DSL:	Listed

con :

:A Inventory Status:	Listed
ada DSL:	Listed

minum flake :

:A Inventory Status:	Listed

tion 313:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
ada DSL:	Listed
adian Regulations.	WHMIS Hazard Class(es): D2B All components of this product are on the Canadian Domestic Substances List.

MIS Pictograms:

TION 16 : ADDITIONAL INFORMATION

S Ratings:

IS Health Hazard:	2*
IS Fire Hazard:	1
IS Reactivity:	1
IS Personal Protection:	X

Health Hazard
Fire Hazard
Reactivity
Personal Protection

* **Chronic Health Effects**

; Revision Date:	May 19, 2015
)S Revision Notes:	GHS Update
; Format:	In accordance to OSHA GHS 1910.1200
)S Author:	Actio Corporation
:laimer:	The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. ITW Polymers Adhesives, NA, MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the ITW Polymers Adhesives, product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a ITW Polymers Adhesives, NA product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the ITW Polymers Adhesi NA product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. ITW Polymers Adhesives, NA provides information in electronic form as a service to its customers. D to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, ITW Polymers Adhesives, NA makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from ITW Polymers Adhesives, NA

Component A - SDS

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Putty Hardener**

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:

Manufacturer Name:	ITW
Address:	30 Endicott Street Danvers, MA 01923
General Phone Number:	(978) 777-1100

Emergency phone number:

Emergency Phone Number:	(800) 424-9300
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424-9300

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:

Signal Word: DANGER.

GHS Class:
Serious Eye Damage. Category 1.
Skin corrosion. Category 1.
Skin Sensitization. Category 1.

Hazard Statements:
H318 - Causes serious eye damage.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.

Precautionary Statements:
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 - Immediately call a POISON CENTER or doctor/physician.
P321 - Specific treatment (see ... on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	
Eye:	Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.
Skin:	Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.
Inhalation:	Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.
Ingestion:	Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.
Chronic Health Effects:	Prolonged skin contact causes burns. Repeated or prolonged inhalation may cause toxic effects.
Signs/Symptoms:	Overexposure can cause headaches, dizziness, nausea, and vomiting.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system. Central nervous system.
Aggravation of Pre-Existing Conditions:	Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Titanium dioxide	13463-67-7	34.8 - 38.5 by weight	
Aliphatic Amines	No Data	23 - 25.4 by weight	
Amorphous silica	7631-86-9	2.3 - 2.5 by weight	
Benzyl alcohol	100-51-6	11.5 - 12.7 by weight	
Triethylenetetramine	112-24-3	11.5 - 12.7 by weight	
Synthetic amorphous silica	112945-52-5	10 - 11 by weight	
Aluminum trihydrate	21645-51-2	1.7 - 1.9 by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
Unsuitable extinguishing media:	Water or foam may cause frothing.

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent)

minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental precautions:

Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

Spill Cleanup Measures:	Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.

Reference to other sections:

Other Precautions:	Pump or shovel to storage/salvage vessels.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Avoid contact with eyes and skin. Do not reuse containers without proper cleaning or reconditioning.
Hygiene Practices:	Wash thoroughly after handling.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

Conditions for safe storage, including any incompatibilities:

Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Do not store in reactive metal containers. Keep away from acids, oxidizers.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Titanium dioxide :

Guideline ACGIH: TLV-TWA: 10 mg/m3

Appropriate engineering controls:

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.
Notes :	Only established PEL and TLV values for the ingredients are listed.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance:	Paste.
Color:	White
Odor:	Mild ammonia like
Boiling Point:	>450°F (232.2°C)
Melting Point:	Not determined.
Specific Gravity:	0.98

Vapor Density:	>1
Vapor Pressure:	<10 mmHg @70°F
Percent Volatile:	0
Evaporation Rate:	<1
pH:	8
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	>200°F (93.3°C)
Flash Point Method:	Tag closed cup. (TCC)
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Auto Ignition Temperature:	Not determined.
VOC Content:	0

9.2. Other Information:

Percent Solids by Weight	100

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability:	Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization:	Not reported.

Conditions To Avoid:

Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Product may slowly corrode copper, aluminum, zinc and galvanized surfaces.

Incompatible Materials:

Incompatible Materials:	Oxidizers, acids, and chlorinated organic compounds. Reactive metals (e.g. sodium, calcium, zinc). Sodium/calcium hypochlorite. Nitrous acid/ oxide, nitrites. Peroxides. Materials reactive with hydroxyl compounds.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Titanium dioxide :

Chronic Effects:	Normal application procedures for this product pose minimal hazard as to the release of respirable titanium dioxide dust, but grinding or sanding dried films of this product may yield some respirable titanium dioxide. Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials". OSHA does not regulate titanium dioxide as a carcinogen. However, under 29CFR 1910.1200 the SDS must convey the fact that titanium dioxide is a potential carcinogen to rats.
Carcinogenicity:	Animal evidence shows that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation.

Amorphous silica :

Eye:	Administration into the eye - Rabbit Standard Draize test: 25 mg/24H [Mild] (RTECS)

Benzyl alcohol :

Skin:	Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 2000 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Inhalation:	Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: >500 mg/m3 [Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 1230 mg/kg [Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Behavioral - Coma] Oral - Rat LD50 - Lethal dose, 50 percent kill: 1660 mg/kg [Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lungs, Thorax, or Respiration - Respiratory depression] Oral - Rat LD50 - Lethal dose, 50 percent kill: 1.5 mL/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Triethylenetetramine :

Eye:	Administration into the eye - Rabbit Standard Draize test: 49 mg [Severe] Administration into the eye - Rabbit Standard Draize test: 20 mg/24H [Moderate] (RTECS)
Skin:	Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 805 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 2500 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Synthetic amorphous silica :

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:	Non regulated.
DOT UN Number:	Non regulated.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Titanium dioxide :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Amorphous silica :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Benzyl alcohol :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Triethylenetetramine :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Synthetic amorphous silica :

Canada DSL:	Listed

Aluminum trihydrate :

TSCA Inventory Status:	Listed
Canada DSL:	Listed
Canadian Regulations.	WHMIS Hazard Class(es): D2B
WHMIS Pictograms:	

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard:	2*
HMIS Fire Hazard:	1
HMIS Reactivity:	0
HMIS Personal Protection:	X

Health Hazard	2*
Fire Hazard	1
Reactivity	0
Personal Protection	X

* Chronic Health Effects

SDS Creation Date:	June 06, 2014
SDS Revision Date:	July 25, 2015
MSDS Revision Notes:	GHS Update

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