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SDS

**Common Name:** FLAP DISC, ABRASIVE CLOTH ROLL, FIBER DISC, PSA SANDING DISC, ALUMINUM OXIDE SAN

**Manufacturer:** GRAINGER GLOBAL SOURCING

**SDS Revision Date:** 12/2/2014

**SDS Format:** GHS-US

**Item Number(s):** 10Z935, 10Z936, 10Z937, 10Z938, 10Z939, 10Z940, 10Z941, 10Z942, 10Z943, 10Z944, 10Z945, 10Z946, 10Z947, 10Z948, 10Z949, 10Z950, 10Z951, 10Z952, 10Z953, 10Z954, 10Z955, 10Z956, 10Z957, 10Z958, 10Z959, 10Z960, 10Z961, 10Z962, 10Z963, 10Z964, 10Z965, 10Z966, 10Z967, 10Z968, 10Z969, 11L250, 11L251, 11L252, 11L253, 11L254, 11L255, 11L256, 11L257, 11L258, 11L259, 11L260, 11L261, 11L262, 11L263, 11L264, 11L265, 11L266, 11L267, 11L268, 11L269, 11L270, 11L271, 11L272, 11L273, 11L274, 11L275, 11L276, 11L277, 11L278, 11L279, 11L280, 11L281, 11L282, 11L283, 11L284, 11L285, 11L286, 11L287, 11L288, 11L289, 11L290, 11L291, 11L292, 11L293, 11L294, 11L295, 11L296, 11L297, 11L298, 11L299, 11L301, 11L302, 11L303, 11L304, 11L305, 11L306, 11L307, 11L308, 11L309, 11L310, 11L311, 11L312, 11L313, 11L314, 11L315, 11L316, 11L317, 11L318, 11L319, 11L320, 11L321, 11L322, 11L323, 11L324, 11L325, 11L326, 11L327, 11L328, 11L329, 11L330, 11L331, 11L377, 11L378, 11L379, 11L380, 11L381, 11L382, 11L383, 11L384, 11L385, 11L386, 11L387, 11L388, 11L389, 11L390, 11L391, 11L392, 11L393, 11L394, 11L395, 11L396, 11L397, 11L398, 11L399, 11L401, 11L402, 11L403, 11L404, 11N245, 11N246, 11N247, 11N248, 11N249, 11N250, 11N251, 11N252, 11N253, 11N254, 11N255, 11N256, 11N257, 11N258, 11N259, 11N260, 11N261, 11N262, 11N263, 11N264, 11N265, 11N266, 11N267, 11N281, 11N282, 11N283, 11N284, 11N285, 11N286, 11N287, 11N288, 11N289, 11N290, 11N291, 11N333, 11N334, 11N335, 11N336, 11N337, 11N338, 11N339, 11N340, 11N341, 11N342, 11N343, 11N344, 11N345, 11N346, 11N347, 11N348, 11N349, 11N350, 11N351, 11N352, 11N353, 11N354, 11N355, 11N356, 11N357, 11N358, 23XN54, 23XN55, 23XN56, 23XN57, 23XN58, 23XN59, 23XN60, 23XN61, 23XN62, 23XN63, 23XN64, 23XN65, 23XN66, 23XN67, 23XN68, 23XN69, 23XN70, 23XN71, 23XN72, 23XN73, 23XN74, 23XN75, 23XN76, 23XN77, 23XN78, 23XN79, 23XN80, 23XN81, 23XN82, 23XN83, 23XN84, 23XN85, 23XN86, 23XN87, 23XN88, 23XN89, 23XN90, 23XN91, 23XN92, 23XN93, 23XN94, 23XN95, 23XN96, 23XN97, 23XN98, 23XN99, 23XP01, 23XP02, 23XP03, 23XP04, 23XP05, 23XP06, 23XP07, 23XP08, 23XP09, 23XP10, 23XP11, 23XP12, 23XP13, 23XP14, 23XP15, 23XP16, 23XP17, 23XP18, 23XP19, 23XP20, 23XP21, 23XP22, 23XP23, 23XP24, 23XP25, 23XP26, 23XP27, 23XP28, 23XP29, 23XP30, 23XP31, 23XP32, 23XP33, 23XP34, 23XP35, 23XP36, 23XP37, 23XP38, 23XP39, 23XP40, 23XP41, 23XP42, 23XP43, 23XP44, 23XP45, 23XP46, 23XP47, 23XP48, 23XP49, 23XP50, 23XP51, 23XP52, 23XP53, 23XP54, 23XP55, 23XP56, 23XP57, 23XP58, 23XP59, 23XP60, 23XP61, 23XP62, 23XP63, 23XP64, 23XP65, 23XP66, 23XP67, 23XP68, 23XP69, 23XP70, 23XP71, 23XP72, 23XP73, 23XP74, 23XP75, 23XP76, 23XP77, 23XP78, 23XP79, 23XP80, 23XP81, 23XP82, 23XP83, 23XP84, 23XP85, 31EM71, 31EM72, 31EM73, 31EM74, 31EM75, 31EM76, 31EM77, 31EM78, 31EM79, 31EM80, 31EM81, 31EM82, 31EM83, 31EM84, 31EM85, 31EM86, 31EM87, 31EM88, 31EM89, 31EM90, 31EM91, 31EM92, 31EM93, 6NW94, 6NW95, 6NW96, 6NW97, 6NW98, 6NW99, 6NX01, 6NX02, 6NX03, 6NX04, 6NX05, 6NX06, 6NX07, 6NX08, 6NX09, 6NX10, 6NX11, 6NX12, 6NX13, 6NX14, 6NX15, 6NX16, 6NX17, 6NX18, 6NX19, 6NX20, 6NX21, 6NX22, 6NX23, 6NX24, 6NX25, 6NX26, 6NX27, 6NX28, 6NX29, 6NX30, 6NX31, 6NX32, 6NX33, 6NX34, 6NX35, 6NX36, 6NX37, 6NX38, 6NX39, 6NX40, 6NX41, 6NX42, 6NX43, 6NX44, 6NX45, 6NX46, 6NX47, 6NX48, 6NX49, 6NX50, 6NX51, 6NX52, 6NX53, 6NX54, 6NX55, 6NX56, 6NX57, 6NX58, 6NX59, 6NX60, 6NX61, 6NX62, 6NX63, 6NX64, 6NX65, 6NX66, 6NX67, 6NX68, 6NX69, 6NX70, 6NX71, 6NX72, 6NX73, 6NX74, 6NX75, 6NX76, 6NX77, 6NX78, 6NX79, 6NX80, 6NX81, 6NX82, 6NX83, 6NX84, 6NX85, 6NX86, 6NX87, 6NX88, 6NX89, 6NX90, 6NX91, 6NX92, 6NX93, 6NX94, 6NX95, 6NX96, 6NX97, 6NX98, 6NX99, 6NZ01, 6NZ02, 6NZ03, 6NZ04, 6NZ05, 6NZ06, 6NZ07, 6NZ08

**Manufacturer Model Number(s):**

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FLAP DISC

COATED ABRASIVE

## SECTION 1: IDENTIFICATION



### 1.1. PRODUCT IDENTIFIER:

PRODUCT NAME:

FLAP DISC

ABRASIVE CLOTH ROLL

FIBER DISC

PSA SANDING DISC

ALUMINUM OXIDE SANDER BELT

FLAP WHEEL

### 1.2. OTHER IDENTIFICATION:

GGs SKU NO.:

6NX58 TO 6NX99

6NZ01 TO 6NZ08

31EM71 TO 31EM93

11L377 TO 11L404

10Z935 TO 10Z969

23XP01 TO 23XP85

23XN54 TO 23XN99

11N333 TO 11N358

11L250 TO 11L331

11N245 TO 11N267

11N281 TO 11N291

### 1.3. RECOMMENDED USE AND RESTRICTIONS ON USE: FOR GRINDING AND FINISHING OPERATIONS

### 1.4. SUPPLIER'S DETAILS:

GRAINGER GLOBAL SOURCING

100 GRAINGER PARKWAY

LAKE FOREST, IL 60045

USA

TEL: 847-535-1000

### 1.5. EMERGENCY TELEPHONE NUMBER:

EMERGENCY PHONE NUMBER:

GRAINGER TECHNICAL SUPPORT AT: 1-800-356-2501

IN THE CASE OF POISONING, CONTACT CHEMTREC:

1-800-424-9300 (TOLL-FREE); 00 OR +1-703-527-3887 (NON-US)

## SECTION 2: HAZARD IDENTIFICATION



### 2.1. HAZARD CLASSIFICATION:

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

## 2.2. LABEL ELEMENTS:

SIGNAL WORD: NOT APPLICABLE.

SYMBOLS: NOT APPLICABLE.

PICTOGRAMS: NOT APPLICABLE.

## 2.3. HAZARDS NOT OTHERWISE CLASSIFIED: NONE.

35% OF THE MIXTURE CONSISTS OF INGREDIENTS OF UNKNOWN ACUTE ORAL TOXICITY.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.1 FLAP DISC:

HAZARDOUS COMPONENT	CAS #
ALUMINUM OXIDE	1344-28-1
AND/OR ZIRCONIUM OXIDE	1314-23-4
CURED PHENOLIC FORMALDEHYDE RESIN	68585-23-9
AND/OR CALCIUM CARBONATE	1317-65-3
AND/OR CRYOLITE (AS FLUORIDES)	15096-52-3
'AND/OR POTASSIUM FLUOROBORATE (AS FLUORIDES)	14075-53-7
AND/OR IRON OXIDE	1309-37-1
AND/OR SORBITAN MONO LAURATE	1338-39-2
AND/OR RUTILE WHITE PIGMENT	13463-67-7
CLOTH (COTTON/POLYCOTTON/POLYESTER)	N/A
GLASS FABRIC	7631-86-9

## 3.2 ABRASIVE CLOTH ROLL:

HAZARDOUS COMPONENT	CAS #
ALUMINUM OXIDE	1344-28-1
CURED PHENOLIC FORMALDEHYDE RESIN	68585-23-9
GLUE	9000-70-8
AND/OR CALCIUM CARBONATE	1317-65-3
AND/OR IRON OXIDE	1309-37-1
AND/OR SORBITAN MONO LAURATE	1338-39-2
AND/OR RUTILE WHITE PIGMENT	13463-67-7
CLOTH (COTTON/POLYCOTTON/POLYESTER)	N/A

## 3.3 FIBER DISC:

INGREDIENTS	CAS #
ALUMINUM OXIDE	1344-28-1

SILICON CARBIDE	409-21-2
AND/OR ZIRCONIUM OXIDE	1314-23-4
CURED PHENOLIC FORMALDEHYDE RESIN	68585-23-9
AND/OR CALCIUM CARBONATE	1317-65-3
AND/OR CRYOLITE (AS FLUORIDES)	15096-52-3
'AND/OR POTASSIUM FLUOROBORATE (AS FLUORIDES)	14075-53-7
AND/OR IRON OXIDE	1309-37-1
AND/OR SORBITAN MONO LAURATE	1338-39-2
AND/OR RUTILE WHITE PIGMENT	13463-67-7
'AND/OR BLUE PIGMENT	N/A
VULCANIZED FIBER	N/A

## 3.4 PSA DISC:

INGREDIENTS	CAS #
ALUMINUM OXIDE	1344-28-1
SILICON CARBIDE	409-21-2
AND/OR ZIRCONIUM OXIDE	1314-23-4
CURED PHENOLIC FORMALDEHYDE RESIN	68585-23-9
AND/OR CALCIUM CARBONATE	1317-65-3
AND/OR CRYOLITE (AS FLUORIDES)	15096-52-3
'AND/OR POTASSIUM FLUOROBORATE (AS FLUORIDES)	14075-53-7
AND/OR IRON OXIDE	1309-37-1
AND/OR SORBITAN MONO LAURATE	1338-39-2
AND/OR RUTILE WHITE PIGMENT	13463-67-7
CLOTH (COTTON/POLYCOTTON/POLYESTER)	N/A
'AND/OR PAPER BACKING	N/A
STICKY PAPER	N/A

## 3.5 ALUMINUM OXIDE SANDER BELT:

INGREDIENTS	CAS #
ALUMINUM OXIDE	1344-28-1
CURED PHENOLIC FORMALDEHYDE RESIN	68585-23-9
AND/OR CALCIUM CARBONATE	1317-65-3
AND/OR CRYOLITE (AS FLUORIDES)	15096-52-3
'AND/OR POTASSIUM FLUOROBORATE (AS FLUORIDES)	14075-53-7
AND/OR IRON OXIDE	1309-37-1

AND/OR SORBITAN MONO LAURATE	1338-39-2
AND/OR RUTILE WHITE PIGMENT	13463-67-7
CLOTH (COTTON/POLYCOTTON/POLYESTER)	N/A
KEVLAR TAPE (POLYAMIDE)	9080-59-5
POLYURETHANE	53504-41-9

### 3.6 FLAP WHEELS:

INGREDIENTS	CAS #
ALUMINUM OXIDE	1344-28-1
CURED PHENOLIC FORMALDEHYDE RESIN	68585-23-9
AND/OR CALCIUM CARBONATE	1317-65-3
AND/OR IRON OXIDE	1309-37-1
AND/OR SORBITAN MONO LAURATE	1338-39-2
CLOTH (COTTON/POLYCOTTON/POLYESTER)	N/A
CURED EPOXY BOND	90598-46-2
FLANGE (STEEL)	12597-69-2

## SECTION 4: FIRST AID MEASURES



### 4.1. DESCRIPTION OF FIRST AID MEASURES:

#### INHALATION:

REMOVE PERSON TO FRESH AIR. IF YOU FEEL UNWELL, GET MEDICAL ATTENTION.

#### SKIN CONTACT:

WASH WITH SOAP AND WATER. IF SIGNS/SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.

#### EYE CONTACT:

FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTACT LENSES IF EASY TO DO. CONTINUE RINSING. IF SIGNS/SYMPTOMS PERSIST, GET MEDICAL ATTENTION.

IF SWALLOWED: NO NEED FOR FIRST AID IS ANTICIPATED.

### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

SEE SECTION 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS.

### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT REQUIRED: NOT APPLICABLE

## SECTION 5: FIRE-FIGHTING MEASURES



### 5.1. SUITABLE EXTINGUISHING MEDIA:

#### IN CASE OF FIRE:

USE A FIRE FIGHTING AGENT SUITABLE FOR ORDINARY COMBUSTIBLE MATERIAL SUCH AS WATER OR FOAM TO EXTINGUISH.

### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

NONE INHERENT IN THIS PRODUCT.

## HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

SUBSTANCE	CONDITION
CARBON MONOXIDE	DURING COMBUSTION
CARBON DIOXIDE	DURING COMBUSTION

5.3. SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:  
NO UNUSUAL FIRE OR EXPLOSION HAZARDS ARE ANTICIPATED.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:  
OBSERVE PRECAUTIONS FROM OTHER SECTIONS.

6.2. ENVIRONMENTAL PRECAUTIONS: AVOID RELEASE TO THE ENVIRONMENT.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: NOT APPLICABLE.

**SECTION 7: HANDLING AND STORAGE**

7.1. PRECAUTIONS FOR SAFE HANDLING:  
FOR INDUSTRIAL OR PROFESSIONAL USE ONLY. AVOID BREATHING OF DUST CREATED BY  
SANDING, GRINDING OR MACHINING. AVOID RELEASE TO THE ENVIRONMENT.  
COMBUSTIBLE DUST MAY FORM BY ACTION OF THIS PRODUCT ON ANOTHER MATERIAL  
(SUBSTRATE). DUST GENERATED FROM THE SUBSTRATE DURING USE OF THIS PRODUCT  
MAY BE EXPLOSIVE IF IN SUFFICIENT CONCENTRATION WITH AN IGNITION SOURCE.  
DUST DEPOSITS SHOULD NOT BE ALLOWED TO ACCUMULATE ON SURFACES BECAUSE OF  
THE POTENTIAL FOR SECONDARY EXPLOSIONS.

7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES:  
NO SPECIAL STORAGE REQUIREMENTS.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS:

8.1.1 FLAP DISC:

HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
ALUMINUM OXIDE	15 MG/M3 (TOTAL DUST)	10 MG/M3
AND/OR ZIRCONIUM OXIDE	5 MG/M3	5 MG/M3
CURED PHENOLIC FORMALDEHYDE RESIN	NONE ESTABLISHED	NONE ESTABLISHED
AND/OR CALCIUM CARBONATE	15 MG/M3 (TOTAL DUST)	10 MG/M3
AND/OR CRYOLITE (AS FLUORIDES)	2.5 MG/M3	2.5 MG/M3
AND/OR POTASSIUM FLUOROBORATE (AS FLUORIDES)	2.5 MG/M3	2.5 MG/M3
AND/OR IRON OXIDE	5 MG/M3	10 MG/M3
AND/OR SORBITAN MONO LAURATE	NONE ESTABLISHED	NONE ESTABLISHED

AND/OR RUTILE WHITE PIGMENT	10 MG/M3	10 MG/M3
CLOTH (COTTON/POLYCOTTON/ POLYESTER)	NONE ESTABLISHED	NONE ESTABLISHED
GLASS FABRIC	10 MG/M3	0.1 MG/M3
8.1.2 ABRASIVE CLOTH ROLL:		
HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
ALUMINUM OXIDE	15 MG/M3 (TOTAL DUST)	10 MG/M3
CURED PHENOLIC FORMALDEHYDE RESIN	NONE ESTABLISHED	NONE ESTABLISHED
GLUE	NONE ESTABLISHED	NONE ESTABLISHED
AND/OR CALCIUM CARBONATE	15 MG/M3 (TOTAL DUST)	10 MG/M3
AND/OR IRON OXIDE	5 MG/M3	10 MG/M3
AND/OR SORBITAN MONO LAURATE	NONE ESTABLISHED	NONE ESTABLISHED
AND/OR RUTILE WHITE PIGMENT	10 MG/M3	10 MG/M3
CLOTH (COTTON/POLYCOTTON/ POLYESTER)	NONE ESTABLISHED	NONE ESTABLISHED
8.1.3 FIBER DISC:		
HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
ALUMINUM OXIDE	15 MG/M3 (TOTAL DUST)	10 MG/M3
SILICON CARBIDE	15 MG/M3 (TOTAL DUST)	10 MG/M3
AND/OR ZIRCONIUM OXIDE	5 MG/M3	5 MG/M3
CURED PHENOLIC FORMALDEHYDE RESIN	NONE ESTABLISHED	NONE ESTABLISHED
AND/OR CALCIUM CARBONATE	15 MG/M3 (TOTAL DUST)	10 MG/M3
AND/OR CRYOLITE (AS FLUORIDES)	2.5 MG/M3	2.5 MG/M3
AND/OR POTASSIUM FLUOROBORATE (AS FLUORIDES)	2.5 MG/M3	2.5 MG/M3
AND/OR IRON OXIDE	5 MG/M3	10 MG/M3
AND/OR SORBITAN MONO LAURATE	NONE ESTABLISHED	NONE ESTABLISHED
AND/OR RUTILE WHITE PIGMENT	10 MG/M3	10 MG/M3
'AND/OR BLUE PIGMENT	5 MG/M3	10 MG/M3
VULCANIZED FIBER	NONE ESTABLISHED	NON ESTABLISHED
8.1.4 PSA DISC:		
HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
ALUMINUM OXIDE	15 MG/M3 (TOTAL DUST)	10 MG/M3
SILICON CARBIDE	15 MG/M3 (TOTAL DUST)	10 MG/M3
AND/OR ZIRCONIUM OXIDE	5 MG/M3	5 MG/M3
CURED PHENOLIC FORMALDEHYDE RESIN	NONE ESTABLISHED	NONE ESTABLISHED

AND/OR CALCIUM CARBONATE	15 MG/M3 (TOTAL DUST)	10 MG/M3
AND/OR CRYOLITE (AS FLUORIDES)	2.5 MG/M3	2.5 MG/M3
AND/OR POTASSIUM FLUOROBORATE (AS FLUORIDES)	2.5 MG/M3	2.5 MG/M3
AND/OR IRON OXIDE	5 MG/M3	10 MG/M3
AND/OR SORBITAN MONO LAURATE	NONE ESTABLISHED	NONE ESTABLISHED
AND/OR RUTILE WHITE PIGMENT	10 MG/M3	10 MG/M3
CLOTH (COTTON/POLYCOTTON/ POLYESTER)	NONE ESTABLISHED	NONE ESTABLISHED
'AND/OR PAPER BACKING	15 MG/M3	10 MG/M3
STICKY PAPER	NONE ESTABLISHED	NONE ESTABLISHED
8.1.5 ALUMINUM OXIDE SANDER BELT:		
HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
ALUMINUM OXIDE	15 MG/M3 (TOTAL DUST)	10 MG/M3
CURED PHENOLIC FORMALDEHYDE RESIN	NONE ESTABLISHED	NONE ESTABLISHED
AND/OR CALCIUM CARBONATE	15 MG/M3 (TOTAL DUST)	10 MG/M3
AND/OR CRYOLITE (AS FLUORIDES)	2.5 MG/M3	2.5 MG/M3
AND/OR POTASSIUM FLUOROBORATE (AS FLUORIDES)	2.5 MG/M3	2.5 MG/M3
AND/OR IRON OXIDE	5 MG/M3	10 MG/M3
AND/OR SORBITAN MONO LAURATE	NONE ESTABLISHED	NONE ESTABLISHED
CLOTH (COTTON/POLYCOTTON/ POLYESTER)	NONE ESTABLISHED	NONE ESTABLISHED
POLYAMIDE	NONE ESTABLISHED	NONE ESTABLISHED
POLYURETHANE	NONE ESTABLISHED	NONE ESTABLISHED
8.1.6 FLAP WHEELS:		
HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
ALUMINIUM OXIDE	15 MG/M3 (TOTAL DUST)	5 MG/M3
CLOTH BACKING	NONE ESTABLISHED	NONE ESTABLISHED
CURED PHENOLIC FORMALDEHYDE RESIN	NONE ESTABLISHED	NONE ESTABLISHED
CURED EPOXY RESIN	NONE ESTABLISHED	NONE ESTABLISHED
CALCIUM CARBONATE	15 MG/M3 (TOTAL DUST)	10 MG/M3
FLINT	1 MG/M3	1 MG/M3
MILD STEEL/ SS /NON FERROUS METALS	NONE ESTABLISHED	NONE ESTABLISHED
8.2. EXPOSURE CONTROLS:		



**8.2.1. ENGINEERING CONTROLS:**

PROVIDE APPROPRIATE LOCAL EXHAUST VENTILATION FOR SANDING, GRINDING OR MACHINING. USE GENERAL DILUTION VENTILATION AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE EXPOSURES TO BELOW RELEVANT EXPOSURE LIMITS AND/OR CONTROL DUST/FUME/GAS/MIST/VAPORS/SPRAY. IF VENTILATION IS NOT ADEQUATE, USE RESPIRATORY PROTECTION EQUIPMENT. PROVIDE LOCAL EXHAUST AT PROCESS EMISSION SOURCES TO CONTROL EXPOSURE NEAR THE SOURCE AND TO PREVENT THE ESCAPE OF DUST INTO THE WORK AREA. ENSURE THAT DUST-HANDLING SYSTEMS (SUCH AS EXHAUST DUCTS, DUST COLLECTORS, VESSELS, AND PROCESSING EQUIPMENT) ARE DESIGNED IN A MANNER TO PREVENT THE ESCAPE OF DUST INTO THE WORK AREA (I.E., THERE IS NO LEAKAGE FROM THE EQUIPMENT).

**8.2.2. PERSONAL PROTECTIVE EQUIPMENT (PPE):****EYE/FACE PROTECTION:**

TO MINIMIZE THE RISK OF INJURY TO FACE AND EYES, ALWAYS WEAR EYE AND FACE PROTECTION WHEN WORKING AT SANDING OR GRINDING OPERATIONS OR WHEN NEAR SUCH OPERATIONS. SELECT AND USE EYE/FACE PROTECTION TO PREVENT CONTACT BASED ON THE RESULTS OF AN EXPOSURE ASSESSMENT. THE FOLLOWING EYE/FACE PROTECTION(S) ARE RECOMMENDED: SAFETY GLASSES WITH SIDE SHIELDS

**SKIN/HAND PROTECTION:**

WEAR APPROPRIATE GLOVES TO MINIMIZE RISK OF INJURY TO SKIN FROM CONTACT WITH DUST OR PHYSICAL ABRASION FROM GRINDING OR SANDING.

**RESPIRATORY PROTECTION:**

ASSESS EXPOSURE CONCENTRATIONS OF ALL MATERIALS INVOLVED IN THE WORK PROCESS. CONSIDER MATERIAL BEING ABRADED WHEN DETERMINING THE APPROPRIATE RESPIRATORY PROTECTION. SELECT AND USE APPROPRIATE RESPIRATORS TO PREVENT INHALATION OVEREXPOSURE.

AN EXPOSURE ASSESSMENT MAY BE NEEDED TO DECIDE IF A RESPIRATOR IS REQUIRED. IF A RESPIRATOR IS NEEDED, USE RESPIRATORS AS PART OF A FULL RESPIRATORY PROTECTION PROGRAM. BASED ON THE RESULTS OF THE EXPOSURE ASSESSMENT, SELECT FROM THE FOLLOWING RESPIRATOR TYPE(S) TO REDUCE INHALATION EXPOSURE:

HALF FACE PIECE OR FULL FACE PIECE AIR-PURIFYING RESPIRATOR SUITABLE FOR PARTICULATES

FOR QUESTIONS ABOUT SUITABILITY FOR A SPECIFIC APPLICATION, CONSULT WITH YOUR RESPIRATOR MANUFACTURER.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

GENERAL PHYSICAL FORM: SOLID

ODOR: NOT APPLICABLE

ODOR THRESHOLD: NOT APPLICABLE

PH: NOT APPLICABLE

MELTING POINT: NOT APPLICABLE

BOILING POINT: NOT APPLICABLE

FLASH POINT: NON-COMBUSTIBLE

EVAPORATION RATE: NOT APPLICABLE

FLAMMABILITY (SOLID, GAS): NOT APPLICABLE

FLAMMABLE LIMITS (LEL/UEL): NOT APPLICABLE

VAPOR PRESSURE: NOT APPLICABLE

VAPOR DENSITY: NOT APPLICABLE

DENSITY: NOT APPLICABLE

SPECIFIC GRAVITY: NOT APPLICABLE

SOLUBILITY: NOT APPLICABLE

PARTITION COEFFICIENT (N-OCTANOL/ WATER): NOT APPLICABLE

AUTOIGNITION TEMPERATURE: NOT APPLICABLE

DECOMPOSITION TEMPERATURE: NOT APPLICABLE

VISCOSITY: NOT APPLICABLE

## SECTION 10: STABILITY AND REACTIVITY



### 10.1. REACTIVITY:

THIS MATERIAL IS CONSIDERED TO BE NONREACTIVE UNDER NORMAL USE CONDITIONS.

### 10.2. CHEMICAL STABILITY: STABLE.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS:  
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

### 10.4. CONDITIONS TO AVOID: NONE KNOWN.

### 10.5. INCOMPATIBLE MATERIALS: NONE KNOWN.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS:  
SUBSTANCE CONDITION: NONE KNOWN.

REFER TO SECTION 5.2 FOR HAZARDOUS DECOMPOSITION PRODUCTS DURING COMBUSTION.

## SECTION 11: TOXICOLOGICAL INFORMATION



THE INFORMATION BELOW MAY NOT BE CONSISTENT WITH THE MATERIAL CLASSIFICATION IN SECTION 2 IF SPECIFIC INGREDIENT CLASSIFICATIONS ARE MANDATED BY A COMPETENT AUTHORITY. IN ADDITION, TOXICOLOGICAL DATA ON INGREDIENTS MAY NOT BE REFLECTED IN THE MATERIAL CLASSIFICATION AND/OR THE SIGNS AND SYMPTOMS OF EXPOSURE, BECAUSE AN INGREDIENT MAY BE PRESENT BELOW THE THRESHOLD FOR LABELING, AN INGREDIENT MAY NOT BE AVAILABLE FOR EXPOSURE, OR THE DATA MAY NOT BE RELEVANT TO THE MATERIAL AS A WHOLE.

### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS:

#### INGESTION:

NONE EXPECTED UNDER NORMAL USE CONDITIONS. SWALLOWING LARGE PIECES MAY CAUSE OBSTRUCTION OF THE GASTROINTESTINAL TRACT.

INHALATION: DUST MAY CAUSE RESPIRATORY IRRITATION.

#### EYE:

DUST MAY CAUSE EYE IRRITATION. DUST PARTICLES MAY CAUSE ABRASIVE INJURY TO THE EYES.

#### SKIN:

NONE EXPECTED UNDER NORMAL USE CONDITIONS. RUBBING PRODUCT ACROSS THE SKIN MAY CAUSE MECHANICAL IRRITATION OR ABRASIONS.

SENSITIZATION: THIS MATERIAL IS NOT KNOWN TO CAUSE SENSITIZATION.

CHRONIC:

LONG-TERM OVEREXPOSURE TO RESPIRABLE DUST MAY CAUSE LUNG DAMAGE (FIBROSIS) WITH SYMPTOMS OF COUGHING, SHORTNESS OF BREATH AND DIMINISHED BREATHING CAPACITY. CHRONIC EFFECTS MAY BE AGGRAVATED BY SMOKING. PROLONGED OVEREXPOSURE TO FLUORIDES MAY CAUSE A BONE CONDITION, FLUOROSIS. PROLONGED EXPOSURE TO ELEVATED NOISE LEVELS DURING OPERATIONS MAY AFFECT HEARING. A GREATER HAZARD, IN MOST CASES, IS THE EXPOSURE TO THE DUST/FUMES FROM THE MATERIAL OR PAINT/COATINGS BEING SANDED. MOST OF THE DUST GENERATED DURING SANDING IS FROM THE BASE MATERIAL BEING SANDED AND THE POTENTIAL HAZARD FROM THIS EXPOSURE MUST BE EVALUATED.

CARCINOGENICITY:

TITANIUM DIOXIDE IS LISTED BY IARC AS A GROUP 2B CARCINOGEN (SUSPECTED HUMAN CARCINOGEN). NONE OF THE OTHER COMPONENTS ARE LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA, NTP OR IARC.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

EMPLOYEES WITH PRE-EXISTING RESPIRATORY DISEASE MAY BE AT RISK FROM EXPOSURE.

## SECTION 12: ECOLOGICAL INFORMATION



NO ECOLOGICAL DATA IS AVAILABLE FOR THIS PRODUCT. NO HAZARDS TO THE ENVIRONMENT ARE EXPECTED FROM THIS PRODUCT. HOWEVER, CONSIDERATION MUST BE GIVEN TO POTENTIAL ENVIRONMENT EFFECTS OF THE BASE MATERIAL BEING PROCESSED.

## SECTION 13: DISPOSAL CONSIDERATIONS



13.1. DISPOSAL METHODS:

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE LOCAL / REGIONAL / NATIONAL REGULATIONS. LOCAL REGULATIONS MAY BE MORE STRINGENT THAN REGIONAL AND NATIONAL REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO DETERMINE THE TOXICITY AND PHYSICAL CHARACTERISTICS OF THE MATERIAL TO DETERMINE THE PROPER WASTE IDENTIFICATION AND DISPOSAL IN COMPLIANCE WITH APPLICABLE REGULATIONS.

## SECTION 14: TRANSPORT INFORMATION



DOT HAZARDOUS MATERIALS DESCRIPTION:

PROPER SHIPPING NAME: NOT REGULATED

HAZARD CLASS/PACKING GROUP: NONE

LABELS REQUIRED: NONE

## SECTION 15: REGULATORY INFORMATION



SARA SECTION 311/312 HAZARD CATEGORIES: NOT APPLICABLE

## SECTION 16: OTHER INFORMATION



NFPA HAZARD RATING:

HEALTH 1

FIRE 0

REACTIVITY 0

LEAST - 0

SLIGHT - 1

MODERATE - 2

HIGH - 3

EXTREME - 4

NA = NOT APPLICABLE

NE = NOT ESTABLISHED

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