

Common Name: NITRILE HIGH PERFORMANCE RUBBER AND GASKET ADHESIVE 847

Manufacturer: 3M

SDS Revision Date: 6/4/2019

SDS Format: GHS-US

Item Number(s): 56YC80, 5E125, 5E128

Manufacturer Model Number(s):

SDS Table of Contents

Click the desired link below to jump directly to that section in the SDS.

[SECTION 1: IDENTIFICATION](#)

[SECTION 2: HAZARD IDENTIFICATION](#)

[SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS](#)

[SECTION 4: FIRST AID MEASURES](#)

[SECTION 5: FIRE-FIGHTING MEASURES](#)

[SECTION 6: ACCIDENTAL RELEASE MEASURES](#)

[SECTION 7: HANDLING AND STORAGE](#)

[SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION](#)

[SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES](#)

[SECTION 10: STABILITY AND REACTIVITY](#)

[SECTION 11: TOXICOLOGICAL INFORMATION](#)

[SECTION 12: ECOLOGICAL INFORMATION](#)

[SECTION 13: DISPOSAL CONSIDERATIONS](#)

[SECTION 14: TRANSPORT INFORMATION](#)

[SECTION 15: REGULATORY INFORMATION](#)

[SECTION 16: OTHER INFORMATION](#)

3M(TM) NITRILE HIGH PERFORMANCE RUBBER AND GASKET ADHESIVE 847

06/04/19

3M

SAFETY DATA SHEET

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DOCUMENT GROUP: 10-2436-3

VERSION NUMBER: 42.03

ISSUE DATE: 06/04/19

SUPERCEDES DATE: 06/04/19

SECTION 1: IDENTIFICATION



1.1. PRODUCT IDENTIFIER:

3M(TM) NITRILE HIGH PERFORMANCE RUBBER AND GASKET ADHESIVE 847

PRODUCT IDENTIFICATION NUMBERS:

ID NUMBER

UPC

EC-847

62-0847-2631-4 00-21200-19718-5

62-0847-6530-4 00-21200-19721-5

62-0847-8530-2 00-21200-19725-3

78-8135-1201-5

62-0847-2630-6 00-21200-19718-5

62-0847-2632-2

62-0847-7530-3 00-21200-19723-9

62-0847-9530-1 00-21200-19729-1

7000000794, 7000121193, 7000042735, 7000121194, 7000121195, 7000121196

1.2. RECOMMENDED USE AND RESTRICTIONS ON USE:

RECOMMENDED USE: ADHESIVE, INDUSTRIAL USE

1.3. SUPPLIER'S DETAILS:

MANUFACTURER: 3M

DIVISION:

INDUSTRIAL ADHESIVES AND TAPES DIVISION

COMMUNICATION MARKETS DIVISION

ADDRESS:

3M CENTER, ST. PAUL,
MN 55144-1000,
USA

TELEPHONE: 1-888-3M HELPS (1-888-364-3577)

1.4. EMERGENCY TELEPHONE NUMBER:

1-800-364-3577 OR (651) 737-6501 (24 HOURS)

SECTION 2: HAZARD IDENTIFICATION



2.1. HAZARD CLASSIFICATION:

FLAMMABLE LIQUID: CATEGORY 2.

SERIOUS EYE DAMAGE/IRRITATION: CATEGORY 2A.

REPRODUCTIVE TOXICITY: CATEGORY 2.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): CATEGORY 3.

2.2. LABEL ELEMENTS:

SIGNAL WORD: DANGER

SYMBOLS:

FLAME
EXCLAMATION MARK
HEALTH HAZARD

PICTOGRAMS:

FLAME
EXCLAMATION MARK
HEALTH HAZARD

HAZARD STATEMENTS:

HIGHLY FLAMMABLE LIQUID AND VAPOR.
CAUSES SERIOUS EYE IRRITATION.
MAY CAUSE DROWSINESS OR DIZZINESS.
SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

PRECAUTIONARY STATEMENTS:

PREVENTION:

OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.
KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING.
GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT.
USE ONLY NON-SPARKING TOOLS.
TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE.
KEEP CONTAINER TIGHTLY CLOSED.
USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING EQUIPMENT.
AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY.
USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.
WEAR PROTECTIVE GLOVES AND EYE/FACE PROTECTION.
WASH THOROUGHLY AFTER HANDLING.

RESPONSE:

IF INHALED:
REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

IF ON SKIN (OR HAIR):

TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH
WATER/SHOWER.

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 EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.

IN CASE OF FIRE:

USE A FIRE FIGHTING AGENT SUITABLE FOR FLAMMABLE LIQUIDS SUCH AS DRY
CHEMICAL OR CARBON DIOXIDE TO EXTINGUISH.

STORAGE:

STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.
KEEP COOL.
STORE LOCKED UP.

DISPOSAL:

DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH APPLICABLE
LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

2.3. HAZARDS NOT OTHERWISE CLASSIFIED:

REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	C.A.S. NO.	% BY WT
ACETONE	67-64-1	40 - 70 TRADE SECRET *
ACRYLONITRILE-BUTADIENE POLYMER	9003-18-3	10 - 30 TRADE SECRET *
GLYCEROL ESTERS OF ROSIN ACIDS	8050-31-5	7 - 13 TRADE SECRET *
PHENOLIC RESIN	25085-50-1	5 - 10 TRADE SECRET *
SALICYLIC ACID	69-72-7	<3 TRADE SECRET *
ZINC OXIDE	1314-13-2	<2.5 TRADE SECRET *
ANTIOXIDANT	68411-46-1	0.1 - 1 TRADE SECRET *

*THE SPECIFIC CHEMICAL IDENTITY AND/OR EXACT PERCENTAGE (CONCENTRATION) OF THIS COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

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:

IMMEDIATELY WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. IF SIGNS/SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.

EYE CONTACT:

IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTACT LENSES IF EASY TO DO. CONTINUE RINSING. GET MEDICAL ATTENTION.

IF SWALLOWED:

RINSE MOUTH. IF YOU FEEL UNWELL, GET MEDICAL ATTENTION.

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 FLAMMABLE LIQUIDS SUCH AS DRY CHEMICAL OR CARBON DIOXIDE TO EXTINGUISH.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

CLOSED CONTAINERS EXPOSED TO HEAT FROM FIRE MAY BUILD PRESSURE AND EXPLODE.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

SUBSTANCE	CONDITION
HYDROCARBONS	DURING COMBUSTION

CARBON MONOXIDE	DURING COMBUSTION
CARBON DIOXIDE	DURING COMBUSTION
OXIDES OF NITROGEN	DURING COMBUSTION

5.3. SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:

WATER MAY NOT EFFECTIVELY EXTINGUISH FIRE; HOWEVER, IT SHOULD BE USED TO KEEP FIRE-EXPOSED CONTAINERS AND SURFACES COOL AND PREVENT EXPLOSIVE RUPTURE. WEAR FULL PROTECTIVE CLOTHING, INCLUDING HELMET, SELF-CONTAINED, POSITIVE PRESSURE OR PRESSURE DEMAND BREATHING APPARATUS, BUNKER COAT AND PANTS, BANDS AROUND ARMS, WAIST AND LEGS, FACE MASK, AND PROTECTIVE COVERING FOR EXPOSED AREAS OF THE HEAD.

SECTION 6: ACCIDENTAL RELEASE MEASURES



6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: EVACUATE AREA. KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. USE ONLY NON-SPARKING TOOLS. VENTILATE THE AREA WITH FRESH AIR. FOR LARGE SPILL, OR SPILLS IN CONFINED SPACES, PROVIDE MECHANICAL VENTILATION TO DISPERSE OR EXHAUST VAPORS, IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE PRACTICE.

WARNING!

A MOTOR COULD BE AN IGNITION SOURCE AND COULD CAUSE FLAMMABLE GASES OR VAPORS IN THE SPILL AREA TO BURN OR EXPLODE. REFER TO OTHER SECTIONS OF THIS SDS FOR INFORMATION REGARDING PHYSICAL AND HEALTH HAZARDS, RESPIRATORY PROTECTION, VENTILATION, AND PERSONAL PROTECTIVE EQUIPMENT.

6.2. ENVIRONMENTAL PRECAUTIONS:

AVOID RELEASE TO THE ENVIRONMENT. FOR LARGER SPILLS, COVER DRAINS AND BUILD DIKES TO PREVENT ENTRY INTO SEWER SYSTEMS OR BODIES OF WATER.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

CONTAIN SPILL. COVER SPILL AREA WITH A FIRE-EXTINGUISHING FOAM. AN APPROPRIATE AQUEOUS FILM FORMING FOAM (AFFF) IS RECOMMENDED. WORKING FROM AROUND THE EDGES OF THE SPILL INWARD, COVER WITH BENTONITE, VERMICULITE, OR COMMERCIALY AVAILABLE INORGANIC ABSORBENT MATERIAL. MIX IN SUFFICIENT ABSORBENT UNTIL IT APPEARS DRY. REMEMBER, ADDING AN ABSORBENT MATERIAL DOES NOT REMOVE A PHYSICAL, HEALTH, OR ENVIRONMENTAL HAZARD. COLLECT AS MUCH OF THE SPILLED MATERIAL AS POSSIBLE USING NON-SPARKING TOOLS. PLACE IN A METAL CONTAINER APPROVED FOR TRANSPORTATION BY APPROPRIATE AUTHORITIES. CLEAN UP RESIDUE WITH AN APPROPRIATE SOLVENT SELECTED BY A QUALIFIED AND AUTHORIZED PERSON. VENTILATE THE AREA WITH FRESH AIR. READ AND FOLLOW SAFETY PRECAUTIONS ON THE SOLVENT LABEL AND SDS. SEAL THE CONTAINER. DISPOSE OF COLLECTED MATERIAL AS SOON AS POSSIBLE IN ACCORDANCE WITH APPLICABLE LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE



7.1. PRECAUTIONS FOR SAFE HANDLING:

FOR INDUSTRIAL/OCCUPATIONAL USE ONLY. NOT FOR CONSUMER SALE OR USE. DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. USE ONLY NON-SPARKING TOOLS. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH THOROUGHLY AFTER HANDLING. AVOID RELEASE TO THE ENVIRONMENT. AVOID CONTACT WITH OXIDIZING AGENTS (EG. CHLORINE, CHROMIC ACID ETC.) WEAR LOW STATIC OR PROPERLY GROUNDED SHOES. USE PERSONAL PROTECTIVE EQUIPMENT (GLOVES, RESPIRATORS, ETC.) AS REQUIRED. TO MINIMIZE THE RISK OF IGNITION, DETERMINE APPLICABLE ELECTRICAL CLASSIFICATIONS FOR THE PROCESS USING THIS

PRODUCT AND SELECT SPECIFIC LOCAL EXHAUST VENTILATION EQUIPMENT TO AVOID FLAMMABLE VAPOR ACCUMULATION. GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT IF THERE IS POTENTIAL FOR STATIC ELECTRICITY ACCUMULATION DURING TRANSFER.

7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES:
STORE IN A WELL-VENTILATED PLACE. KEEP COOL. KEEP CONTAINER TIGHTLY CLOSED. STORE AWAY FROM HEAT. STORE AWAY FROM ACIDS. STORE AWAY FROM OXIDIZING AGENTS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



8.1. CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS:

IF A COMPONENT IS DISCLOSED IN SECTION 3 BUT DOES NOT APPEAR IN THE TABLE BELOW, AN OCCUPATIONAL EXPOSURE LIMIT IS NOT AVAILABLE FOR THE COMPONENT.

INGREDIENT	C.A.S. NO.	AGENCY	LIMIT TYPE	ADDITIONAL COMMENTS
ZINC OXIDE	1314-13-2	ACGIH	TWA (RESPIRABLE FRACTION): 2 MG/M3; STEL (RESPIRABLE FRACTION): 10 MG/M3	
ZINC OXIDE	1314-13-2	OSHA	TWA (AS FUME): 5 MG/M3; TWA (AS TOTAL DUST): 15 MG/M3; TWA (RESPIRABLE FRACTION): 5 MG/M3	
ACETONE	67-64-1	ACGIH	TWA: 250 PPM STEL: 500 PPM	A4: NOT CLASS. AS HUMAN CARCIN
ACETONE	67-64-1	OSHA	TWA: 2400 MG/M3 (1000 PPM)	

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

AIHA: AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

CMRG: CHEMICAL MANUFACTURER'S RECOMMENDED GUIDELINES

OSHA:

UNITED STATES DEPARTMENT OF LABOR - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

TWA: TIME-WEIGHTED-AVERAGE

STEL: SHORT TERM EXPOSURE LIMIT

CEIL: CEILING

8.2. EXPOSURE CONTROLS:

8.2.1. ENGINEERING CONTROLS:

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. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

8.2.2. PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE/FACE PROTECTION:

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:

INDIRECT VENTED GOGGLES

SKIN/HAND PROTECTION:

SELECT AND USE GLOVES AND/OR PROTECTIVE CLOTHING APPROVED TO RELEVANT LOCAL STANDARDS TO PREVENT SKIN CONTACT BASED ON THE RESULTS OF AN EXPOSURE ASSESSMENT. SELECTION SHOULD BE BASED ON USE FACTORS SUCH AS EXPOSURE LEVELS, CONCENTRATION OF THE SUBSTANCE OR MIXTURE, FREQUENCY AND DURATION, PHYSICAL CHALLENGES SUCH AS TEMPERATURE EXTREMES, AND OTHER USE CONDITIONS. CONSULT WITH YOUR GLOVE AND/OR PROTECTIVE CLOTHING MANUFACTURER FOR SELECTION OF APPROPRIATE COMPATIBLE GLOVES/PROTECTIVE CLOTHING.

GLOVES MADE FROM THE FOLLOWING MATERIAL(S) ARE RECOMMENDED: BUTYL RUBBER

RESPIRATORY PROTECTION:

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 FACEPIECE OR FULL FACEPIECE AIR-PURIFYING RESPIRATOR SUITABLE FOR ORGANIC VAPORS AND PARTICULATES

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

GENERAL PHYSICAL FORM: LIQUID

ODOR, COLOR, GRADE: DARK BROWN LIQUID; SHARP SOLVENT ODOR.

ODOR THRESHOLD: NO DATA AVAILABLE

PH: NOT APPLICABLE

MELTING POINT: NOT APPLICABLE

BOILING POINT: ≥ 56 DEG. C [DETAILS:ACETONE]

FLASH POINT: -4 DEG. F [TEST METHOD:CLOSED CUP]

EVAPORATION RATE: 1.9 [REF STD:ETHER=1]

FLAMMABILITY (SOLID, GAS): NOT APPLICABLE

FLAMMABLE LIMITS(LEL): 2.6 % [DETAILS:ACETONE]

FLAMMABLE LIMITS(UEL): 12.8 % [DETAILS:ACETONE]

VAPOR PRESSURE: ≤ 185 MMHg [@ 68 DEG. F]

VAPOR DENSITY: 2.0 [REF STD:AIR=1]

DENSITY: 0.91 G/ML

SPECIFIC GRAVITY: 0.91 [REF STD:WATER=1]

SOLUBILITY IN WATER: SLIGHT (LESS THAN 10%)

SOLUBILITY- NON-WATER: NO DATA AVAILABLE

PARTITION COEFFICIENT N-OCTANOL/ WATER: NO DATA AVAILABLE

AUTOIGNITION TEMPERATURE: NO DATA AVAILABLE

DECOMPOSITION TEMPERATURE: NO DATA AVAILABLE

VISCOSITY: 1,500 - 3,200 CENTIPOISE [@ 27 DEG. C]

HAZARDOUS AIR POLLUTANTS: 0 % WEIGHT [TEST METHOD:CALCULATED]

MOLECULAR WEIGHT: NO DATA AVAILABLE

VOC LESS H2O & EXEMPT SOLVENTS:
<=20 G/L [TEST METHOD: CALCULATED SCAQMD RULE 443.1]

SOLIDS CONTENT: 30 - 60 %

SECTION 10: STABILITY AND REACTIVITY



10.1. REACTIVITY:
THIS MATERIAL MAY BE REACTIVE WITH CERTAIN AGENTS UNDER CERTAIN CONDITIONS - SEE THE REMAINING HEADINGS IN THIS SECTION.

10.2. CHEMICAL STABILITY: STABLE.

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

10.4. CONDITIONS TO AVOID:
HEAT
SPARKS AND/OR FLAMES

10.5. INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS

10.6. HAZARDOUS DECOMPOSITION PRODUCTS:

SUBSTANCE	CONDITION
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NONE KNOWN.	
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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:

SIGNS AND SYMPTOMS OF EXPOSURE:

BASED ON TEST DATA AND/OR INFORMATION ON THE COMPONENTS, THIS MATERIAL MAY PRODUCE THE FOLLOWING HEALTH EFFECTS:

INHALATION:

RESPIRATORY TRACT IRRITATION:

SIGNS/SYMPTOMS MAY INCLUDE COUGH, SNEEZING, NASAL DISCHARGE, HEADACHE, HOARSENESS, AND NOSE AND THROAT PAIN.

MAY CAUSE ADDITIONAL HEALTH EFFECTS (SEE BELOW).

SKIN CONTACT:

DERMAL DEFATTING:

SIGNS/SYMPTOMS MAY INCLUDE LOCALIZED REDNESS, ITCHING, DRYING AND CRACKING OF SKIN. ALLERGIC SKIN REACTION (NON-PHOTO INDUCED) IN SENSITIVE PEOPLE: SIGNS/SYMPTOMS MAY INCLUDE REDNESS, SWELLING, BLISTERING, AND ITCHING.

EYE CONTACT:

SEVERE EYE IRRITATION:

SIGNS/SYMPTOMS MAY INCLUDE SIGNIFICANT REDNESS, SWELLING, PAIN, TEARING, CLOUDY APPEARANCE OF THE CORNEA, AND IMPAIRED VISION.

INGESTION:

GASTROINTESTINAL IRRITATION:

SIGNS/SYMPTOMS MAY INCLUDE ABDOMINAL PAIN, STOMACH UPSET, NAUSEA, VOMITING AND DIARRHEA.

MAY CAUSE ADDITIONAL HEALTH EFFECTS (SEE BELOW).

ADDITIONAL HEALTH EFFECTS:

SINGLE EXPOSURE MAY CAUSE TARGET ORGAN EFFECTS:

CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION:

SIGNS/SYMPTOMS MAY INCLUDE HEADACHE, DIZZINESS, DROWSINESS, INCOORDINATION, NAUSEA, SLOWED REACTION TIME, SLURRED SPEECH, GIDDINESS, AND UNCONSCIOUSNESS.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY:

CONTAINS A CHEMICAL OR CHEMICALS WHICH CAN CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

TOXICOLOGICAL DATA:

IF A COMPONENT IS DISCLOSED IN SECTION 3 BUT DOES NOT APPEAR IN A TABLE BELOW, EITHER NO DATA ARE AVAILABLE FOR THAT ENDPOINT OR THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION.

ACUTE TOXICITY:

NAME	ROUTE	SPECIES	VALUE
OVERALL PRODUCT	INGESTION		NO DATA AVAILABLE; CALCULATED ATE >5,000 MG/KG
ACETONE	DERMAL	RABBIT	LD50 >15,688 MG/KG
ACETONE	INHALATION- VAPOR (4 HOURS)	RAT	LC50 76 MG/L
ACETONE	INGESTION	RAT	LD50 5,800 MG/KG
ACRYLONITRILE-BUTADIENE POLYMER	DERMAL	RABBIT	LD50 >15,000 MG/KG
ACRYLONITRILE-BUTADIENE	INGESTION	RAT	LD50 >30,000 MG/KG

POLYMER

PHENOLIC RESIN	DERMAL		LD50 ESTIMATED TO BE >5,000 MG/KG
GLYCEROL ESTERS OF ROSIN ACIDS	DERMAL	RABBIT	LD50 >5,000 MG/KG
GLYCEROL ESTERS OF ROSIN ACIDS	INGESTION	RAT	LD50 >2,000 MG/KG
PHENOLIC RESIN	INGESTION	RAT	LD50 5,660 MG/KG
SALICYLIC ACID	DERMAL	RAT	LD50 >2,000 MG/KG
SALICYLIC ACID	INGESTION	RAT	LD50 891 MG/KG
ZINC OXIDE	DERMAL		LD50 ESTIMATED TO BE >5,000 MG/KG
ZINC OXIDE	INHALATION- DUST/MIST (4 HOURS)	RAT	LC50 >5.7 MG/L
ZINC OXIDE	INGESTION	RAT	LD50 >5,000 MG/KG
ANTIOXIDANT	DERMAL	RAT	LD50 >2,000 MG/KG
ANTIOXIDANT	INGESTION	RAT	LD50 >5,000 MG/KG

ATE = ACUTE TOXICITY ESTIMATE

SKIN CORROSION/IRRITATION:

NAME	SPECIES	VALUE
ACETONE	MOUSE	MINIMAL IRRITATION
ACRYLONITRILE-BUTADIENE POLYMER	PROFESSIONAL JUDGEMENT	NO SIGNIFICANT IRRITATION
GLYCEROL ESTERS OF ROSIN ACIDS	RABBIT	MINIMAL IRRITATION
SALICYLIC ACID	RABBIT	NO SIGNIFICANT IRRITATION
ZINC OXIDE	HUMAN AND ANIMAL	NO SIGNIFICANT IRRITATION

SERIOUS EYE DAMAGE/IRRITATION:

NAME	SPECIES	VALUE
ACETONE	RABBIT	SEVERE IRRITANT
ACRYLONITRILE-BUTADIENE POLYMER	PROFESSIONAL JUDGEMENT	NO SIGNIFICANT IRRITATION
GLYCEROL ESTERS OF ROSIN ACIDS	RABBIT	MILD IRRITANT
SALICYLIC ACID	RABBIT	CORROSIVE
ZINC OXIDE	RABBIT	MILD IRRITANT

SKIN SENSITIZATION:

NAME	SPECIES	VALUE
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GLYCEROL ESTERS OF ROSIN ACIDS	GUINEA PIG	NOT CLASSIFIED
PHENOLIC RESIN	HUMAN	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION

SALICYLIC ACID	MOUSE	NOT CLASSIFIED
ZINC OXIDE	GUINEA PIG	NOT CLASSIFIED

PHOTOSENSITIZATION:

NAME	SPECIES	VALUE
SALICYLIC ACID	MOUSE	NOT SENSITIZING

RESPIRATORY SENSITIZATION:

FOR THE COMPONENT/COMPONENTS, EITHER NO DATA ARE CURRENTLY AVAILABLE OR THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION.

GERM CELL MUTAGENICITY:

NAME	ROUTE	VALUE
ACETONE	IN VIVO	NOT MUTAGENIC
ACETONE	IN VITRO	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION
GLYCEROL ESTERS OF ROsin ACIDS	IN VITRO	NOT MUTAGENIC
SALICYLIC ACID	IN VITRO	NOT MUTAGENIC
SALICYLIC ACID	IN VIVO	NOT MUTAGENIC
ZINC OXIDE	IN VITRO	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION
ZINC OXIDE	IN VIVO	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION

CARCINOGENICITY:

NAME	ROUTE	SPECIES	VALUE
ACETONE	NOT SPECIFIED	MULTIPLE ANIMAL SPECIES	NOT CARCINOGENIC

REPRODUCTIVE TOXICITY:

REPRODUCTIVE AND/OR DEVELOPMENTAL EFFECTS:

NAME	ROUTE	VALUE	SPECIES
ACETONE	INGESTION	NOT CLASSIFIED FOR MALE REPRODUCTION	RAT
ACETONE	INHALATION	NOT CLASSIFIED FOR DEVELOPMENT	RAT
SALICYLIC ACID	INGESTION	TOXIC TO DEVELOPMENT	RAT

ZINC OXIDE	INGESTION	NOT CLASSIFIED FOR REPRODUCTION AND/OR DEVELOPMENT	MULTIPLE ANIMAL SPECIES
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NAME	TEST RESULT	EXPOSURE DURATION
ACETONE	NOAEL 1,700 MG/KG/DAY	13 WEEKS
ACETONE	NOAEL 5.2 MG/L	DURING ORGANOGENESIS
SALICYLIC ACID	NOAEL 75 MG/KG/DAY	DURING ORGANOGENESIS
ZINC OXIDE	NOAEL 125 MG/KG/DAY	PREMATING & DURING GESTATION

TARGET ORGAN(S) :

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

NAME	ROUTE	TARGET ORGAN(S)	VALUE
ACETONE	INHALATION	CENTRAL NERVOUS SYSTEM DEPRESSION	MAY CAUSE DROWSINESS OR DIZZINESS
ACETONE	INHALATION	RESPIRATORY IRRITATION	SOME POSITIVE DATA EXIST, BUT THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION
ACETONE	INHALATION	IMMUNE SYSTEM	NOT CLASSIFIED
ACETONE	INHALATION	LIVER	NOT CLASSIFIED
ACETONE	INGESTION	CENTRAL NERVOUS SYSTEM DEPRESSION	MAY CAUSE DROWSINESS OR DIZZINESS

NAME	SPECIES	TEST RESULT	EXPOSURE DURATION
ACETONE	HUMAN	NOAEL NOT AVAILABLE	
ACETONE	HUMAN	NOAEL NOT AVAILABLE	
ACETONE	HUMAN	NOAEL 1.19 MG/L	6 HOURS
ACETONE	GUINEA PIG	NOAEL NOT AVAILABLE	
ACETONE	HUMAN	NOAEL NOT AVAILABLE	POISONING AND/OR ABUSE

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:

NAME	ROUTE	TARGET ORGAN(S)	VALUE
ACETONE	DERMAL	EYES	NOT CLASSIFIED
ACETONE	INHALATION	HEMATOPOIETIC SYSTEM	NOT CLASSIFIED
ACETONE	INHALATION	IMMUNE SYSTEM	NOT CLASSIFIED
ACETONE	INHALATION	KIDNEY AND/OR	NOT CLASSIFIED

		BLADDER	
ACETONE	INHALATION	HEART LIVER	NOT CLASSIFIED
ACETONE	INGESTION	KIDNEY AND/OR BLADDER	NOT CLASSIFIED
ACETONE	INGESTION	HEART	NOT CLASSIFIED
ACETONE	INGESTION	HEMATOPOIETIC SYSTEM	NOT CLASSIFIED
ACETONE	INGESTION	LIVER	NOT CLASSIFIED
ACETONE	INGESTION	EYES	NOT CLASSIFIED
ACETONE	INGESTION	RESPIRATORY SYSTEM	NOT CLASSIFIED
ACETONE	INGESTION	MUSCLES	NOT CLASSIFIED
ACETONE	INGESTION	SKIN BONE, TEETH, NAILS, AND/OR HAIR	NOT CLASSIFIED
GLYCEROL ESTERS OF ROSIN ACIDS	INGESTION	LIVER HEART SKIN ENDOCRINE SYSTEM BONE, TEETH, NAILS, AND/OR HAIR BLOOD BONE MARROW HEMATOPOIETIC SYSTEM IMMUNE SYSTEM MUSCLES NERVOUS SYSTEM EYES KIDNEY AND/OR BLADDER RESPIRATORY SYSTEM	NOT CLASSIFIED
SALICYLIC ACID	INGESTION	LIVER	NOT CLASSIFIED
ZINC OXIDE	INGESTION	NERVOUS SYSTEM	NOT CLASSIFIED
ZINC OXIDE	INGESTION	ENDOCRINE SYSTEM HEMATOPOIETIC SYSTEM KIDNEY AND/OR BLADDER	NOT CLASSIFIED
NAME	SPECIES	TEST RESULT	EXPOSURE DURATION
ACETONE	GUINEA PIG	NOAEL NOT AVAILABLE	3 WEEKS
ACETONE	HUMAN	NOAEL 3 MG/L	6 WEEKS
ACETONE	HUMAN	NOAEL 1.19 MG/L	6 DAYS
ACETONE	GUINEA PIG	NOAEL 119 MG/L	NOT AVAILABLE
ACETONE	RAT	NOAEL 45	8 WEEKS

		MG/L	
ACETONE	RAT	NOAEL 900 MG/KG/DAY	13 WEEKS
ACETONE	RAT	NOAEL 2,500 MG/KG/DAY	13 WEEKS
ACETONE	RAT	NOAEL 200 MG/KG/DAY	13 WEEKS
ACETONE	MOUSE	NOAEL 3,896 MG/KG/DAY	14 DAYS
ACETONE	RAT	NOAEL 3,400 MG/KG/DAY	13 WEEKS
ACETONE	RAT	NOAEL 2,500 MG/KG/DAY	13 WEEKS
ACETONE	RAT	NOAEL 2,500 MG/KG	13 WEEKS
ACETONE	MOUSE	NOAEL 11,298 MG/KG/DAY	13 WEEKS
GLYCEROL ESTERS OF ROSIN ACIDS	RAT	NOAEL 5,000 MG/KG/DAY	90 DAYS
SALICYLIC ACID	RAT	NOAEL 500 MG/KG/DAY	3 DAYS
ZINC OXIDE	RAT	NOAEL 600 MG/KG/DAY	10 DAYS
ZINC OXIDE	OTHER	NOAEL 500 MG/KG/DAY	6 MONTHS

ASPIRATION HAZARD:

FOR THE COMPONENT/COMPONENTS, EITHER NO DATA ARE CURRENTLY AVAILABLE OR THE DATA ARE NOT SUFFICIENT FOR CLASSIFICATION.

PLEASE CONTACT THE ADDRESS OR PHONE NUMBER LISTED IN SECTION 1 OF THIS SDS FOR ADDITIONAL TOXICOLOGICAL INFORMATION ON THIS MATERIAL AND/OR ITS COMPONENTS.

SECTION 12: ECOLOGICAL INFORMATION



ECOTOXICOLOGICAL INFORMATION:

PLEASE CONTACT THE ADDRESS OR PHONE NUMBER LISTED IN SECTION 1 OF THIS SDS FOR ADDITIONAL ECOTOXICOLOGICAL INFORMATION ON THIS MATERIAL AND/OR ITS COMPONENTS.

CHEMICAL FATE INFORMATION:

PLEASE CONTACT THE ADDRESS OR PHONE NUMBER LISTED IN SECTION 1 OF THIS SDS FOR ADDITIONAL CHEMICAL FATE INFORMATION ON THIS MATERIAL AND/OR ITS COMPONENTS.

SECTION 13: DISPOSAL CONSIDERATIONS



13.1. DISPOSAL METHODS:

DISPOSE OF CONTENTS/ CONTAINER IN ACCORDANCE WITH THE LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

INCINERATE IN A PERMITTED WASTE INCINERATION FACILITY. AS A DISPOSAL ALTERNATIVE, UTILIZE AN ACCEPTABLE PERMITTED WASTE DISPOSAL FACILITY. EMPTY DRUMS/BARRELS/CONTAINERS USED FOR TRANSPORTING AND HANDLING HAZARDOUS CHEMICALS (CHEMICAL SUBSTANCES/MIXTURES/PREPARATIONS CLASSIFIED AS HAZARDOUS AS PER APPLICABLE REGULATIONS) SHALL BE CONSIDERED, STORED, TREATED & DISPOSED OF AS HAZARDOUS WASTES UNLESS OTHERWISE DEFINED BY APPLICABLE WASTE REGULATIONS. CONSULT WITH THE RESPECTIVE REGULATING AUTHORITIES TO DETERMINE THE AVAILABLE TREATMENT AND DISPOSAL FACILITIES.

EPA HAZARDOUS WASTE NUMBER (RCRA): D001 (IGNITABLE)

SECTION 14: TRANSPORT INFORMATION



FOR TRANSPORT INFORMATION, PLEASE VISIT:
[HTTP://3M.COM/TRANSPORTINFO](http://3M.COM/TRANSPORTINFO) OR CALL 1-800-364-3577 OR 651-737-6501.

SECTION 15: REGULATORY INFORMATION



15.1. US FEDERAL REGULATIONS:
CONTACT 3M FOR MORE INFORMATION.

EPCRA 311/312 HAZARD CLASSIFICATIONS:

PHYSICAL HAZARDS: FLAMMABLE (GASES, AEROSOLS, LIQUIDS, OR SOLIDS)

HEALTH HAZARDS:
HAZARD NOT OTHERWISE CLASSIFIED (HNOC)
REPRODUCTIVE TOXICITY
SERIOUS EYE DAMAGE OR EYE IRRITATION
SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED EXPOSURE)

SECTION 313 TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF THAT SECTION AND 40 CFR PART 372 (EPCRA):

INGREDIENT	C.A.S. NO	% BY WT
ZINC OXIDE (ZINC COMPOUNDS)	1314-13-2	< 2.5

15.2. STATE REGULATIONS: CONTACT 3M FOR MORE INFORMATION.

15.3. CHEMICAL INVENTORIES:
THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE CHEMICAL NOTIFICATION REQUIREMENTS OF TSCA. ALL REQUIRED COMPONENTS OF THIS PRODUCT ARE LISTED ON THE ACTIVE PORTION OF THE TSCA INVENTORY.

CONTACT 3M FOR MORE INFORMATION.

15.4. INTERNATIONAL REGULATIONS: CONTACT 3M FOR MORE INFORMATION.

THIS SDS HAS BEEN PREPARED TO MEET THE U.S. OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION



NFPA HAZARD CLASSIFICATION:
HEALTH 2
FLAMMABILITY 3
INSTABILITY 0
SPECIAL HAZARDS NONE

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS ARE DESIGNED FOR USE BY EMERGENCY RESPONSE PERSONNEL TO ADDRESS THE HAZARDS THAT ARE PRESENTED BY SHORT-TERM, ACUTE EXPOSURE TO A MATERIAL UNDER CONDITIONS OF FIRE, SPILL, OR SIMILAR EMERGENCIES. HAZARD RATINGS ARE PRIMARILY BASED ON THE INHERENT PHYSICAL AND TOXIC PROPERTIES OF THE MATERIAL BUT ALSO INCLUDE THE TOXIC PROPERTIES OF COMBUSTION OR DECOMPOSITION PRODUCTS THAT ARE KNOWN TO BE GENERATED IN SIGNIFICANT QUANTITIES.

DOCUMENT GROUP: 10-2436-3

VERSION NUMBER: 42.03

ISSUE DATE: 06/04/19

SUPERCEDES DATE: 06/04/19

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