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Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 00112 O-RING SPLICING KIT PART 1
Item No: 151030B
Product Type: Solvent Cleaner

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
N-METHYL-2-PYRROLIDONE 872-50-4	40-70	Not listed	Not listed
BUTYROLACTONE 96-48-0	40-70	Not listed	Not listed

3. HAZARDS IDENTIFICATION

Toxicity: Causes severe eye irritation. Harmful if swallowed. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea.
Primary Routes of Entry: Eye and skin contact, ingestion, inhalation
Signs and Symptoms of Exposure: May cause pain, redness or swelling of the eyes and excessive blinking and tear production. Excessive overexposure may cause giddiness, dizziness, headache, nausea and in extreme cases, unconsciousness and respiratory depression.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
BUTYROLACTONE 96-48-0	40-70	male rat-no evidence; female rat-no evidence, male mice- equivocal evidence, female mice-no evidence		Group 3 Monograph 71, 1999; Supplement 7, 1987; Monograph 11, 1976

Medical Conditions Recognized as Being Aggravated by Exposure: None known.

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Obtain medical attention.
Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.
Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°): 199° F. TCC
Recommended Extinguishing Media: Carbon dioxide, Dry chemical, Foam
Special Fire-Fighting Procedures: Use water spray to cool exposed containers. Firefighters should wear self-contained breathing apparatus.
Hazardous Products of Combustion: Oxides of carbon, Oxides of nitrogen
Unusual Fire/Explosion Hazards: Vapors may travel from container toward sources of ignition and flashback.

Lower Explosive Limit: 1.3%
Upper Explosive Limit: 9.5%

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Storage: Store below 120 degrees F.
Handling: Avoid contact with eyes. Do not take internally. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.
Skin: Neoprene or nitrile gloves recommended.
Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
Respiratory Protection: An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid
Odor: Sweet
Boiling Point: 395°F
pH: Does not apply
Solubility in Water: Soluble
Specific Gravity: 1.06-1.08 @ 25°C
VOC(Wt.%): 100%
Vapor Pressure: 0.29 mm Hg @ 20°C
Vapor Density (Air=1): >1
Evaporation Rate: Very low

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibilities: Strong oxidizers
Conditions to Avoid: Heat.
Hazardous Products of Combustion: Oxides of carbon, Oxides of nitrogen

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.
US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Ground Transport (DOT)

DOT Shipping Name: Not Regulated
Hazard Class: None
UN/ID Number: None

IATA

Proper Shipping Name: Not regulated
Class or Division: None
UN/ID Number: None

IMDG

Proper Shipping: Not regulated
Hazard Class: None
UN Number: None

Marine Pollutant: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

N-METHYL-2-PYRROLINDONE

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 2, REACTIVITY 0.

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 2, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

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Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 00112 O-RING SPLICING KIT WITH ADHESIVE
Item No: 150095B
Product Type: Cyanoacrylate ester

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
ETHYL CYANOACRYLATE 7085-85-0	>70	0.2 ppm	Not listed
POLY (METHYL METHACRYLATE) 9011-14-7	<30	Not listed	Not listed
1,4-DIHYDROXYBENZENE 123-31-9	0.1-1.0	1 mg/m ³	2 mg/m ³

3. HAZARDS IDENTIFICATION

Toxicity: Skin contact may cause burns. Bonds skin rapidly and strongly. Causes eye irritation. Irritates mucous membranes.
Primary Routes of Entry: Eye and skin contact, inhalation
Signs and Symptoms of Exposure: Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
POLY (METHYL METHACRYLATE) 9011-14-7	<30			Group 3 Vol. 19, pg 187; 1979
1,4-DIHYDROXYBENZENE 123-31-9	0.1-1.0	male rat-some evidence; female rat-some evidence; male mice-no evidence; female mice-some evidence	A3 - Animal Carcinogen	Group 3; Monograph 71, 1999; Supplement 7, 1987; Monograph 15, 1977

Medical Conditions Recognized as Being Aggravated by Exposure: None known.

4. FIRST AID MEASURES

Ingestion: Ingestion is not likely. The adhesive solidifies and adheres in the mouth. If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action. Saliva will lift the adhesive in one half to two days.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.

Skin Contact: Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin. For skin adhesion, first immerse the bonded surfaces in warm, soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, e.g., spatula or teaspoon handle; then remove adhesive from the skin with soap and water. Do not try to pull surfaces apart with a direct opposing action. Cyanoacrylates give off heat on solidification. In rare cases, a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

Eye Contact: In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation. If cyanoacrylate is introduced into the eyes, it will attach to the eye protein and will disassociate from it over intermittent periods, generally several hours. This will cause periods of weeping until clearance is achieved. During this period, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°):	185°F TCC
Recommended Extinguishing Media:	Carbon Dioxide, Dry Chemicals, Foam.
Special Fire-Fighting Procedures:	Firefighters should wear self-contained breathing apparatus.
Hazardous Products of Combustion:	Oxides of carbon
Unusual Fire/Explosion Hazards:	May polymerize exothermically.
Lower Explosive Limit:	Not determined.
Upper Explosive Limit:	Not determined.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Flood with water to polymerize. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.
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7. HANDLING AND STORAGE

Storage:	Store below 77°F (25°C).
Handling:	Avoid contact with skin and eyes. Avoid contact with clothing. Do not inhale vapors. Keep container closed when not in use. Wash hands before eating and smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	Safety glasses.
Skin:	Neoprene or nitrile gloves recommended. Do not wear protective clothes containing cotton.
Ventilation:	General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
Respiratory Protection:	An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Odor:	Irritating
Boiling Point:	>300°F
pH:	Does not apply
Solubility in Water:	Insoluble, material hardens
Specific Gravity:	1.05
VOC(Wt.%):	<20 g/l (California SCAQMD Method 316B)
Vapor Pressure:	1 mm Hg @ 20°C
Vapor Density (Air=1):	Approximately 3
Evaporation Rate:	Nil

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal conditions
Hazardous Polymerization:	Hazardous polymerization may occur if over-catalyzed or insufficiently aerated after catalyzation. This polymerization is exothermic.
Incompatibilities:	Polymerized by contact with water, alcohols, amines or alkalies.
Conditions to Avoid:	Avoid contact with clothes, fabrics, rags or tissue. Contact with these material may cause polymerization..
Hazardous Products of Combustion:	Oxides of carbon

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:	Disposal should be made in accordance with federal, state and local regulations..
US EPA Waste Number:	NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Ground Transport (DOT)

DOT Shipping Name: Not Regulated
Hazard Class: None
UN/ID Number: None

IATA

Proper Shipping Name: Not regulated
Class or Division: None
UN/ID Number: None

IMDG

Proper Shipping: Not regulated
Hazard Class: None
UN Number: None

Marine Pollutant: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

NONE

California Proposition 65: No California Prop 65 chemicals are known to be present.

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 2, REACTIVITY 1.

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 2, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

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Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 00112 O-RING SPLICING KIT
Item No: 741260B
Product Type: Surface treating solution

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
TOLUENE 108-88-3	30-50	20 ppm	200 ppm
METHYL ETHYL KETONE (BUTANONE) 78-93-3	35-45	200 ppm	200 ppm; 590 mg/m ³
CARBON BLACK 1333-86-4	<5	3.5 mg/m ³	3.5 mg/m ³
PHENOLIC RESIN 25085-50-1	<5	Not listed	Not listed

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye and skin irritation. May cause nose, throat and respiratory irritation. The solvent(s) listed have been reported to affect the central nervous system. Long term exposure to high concentrations of vapor may cause lung, liver or kidney damage.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure: Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory irritation. Moderately toxic if swallowed. Irritating to mouth, throat and stomach with nausea. Overexposure may cause eye and skin redness.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
TOLUENE 108-88-3	30-50	male rat-no evidence; female rat-no evidence; male mice- no, female mice-no	A4 - Not Classifiable as a Human Carcinogen	Group 3; Monograph 71, 1999; Monograph 47, 1989
CARBON BLACK 1333-86-4	<5		Group A4 - Not classifiable as a human carcinogen	Group 2B; Monograph 65, 1996

Medical Conditions Recognized as Being Aggravated by Exposure: Toluene: Eye, liver, skin, respiratory and central nervous system disorders, alcoholism. Carbon black: respiratory disorders.

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Obtain medical attention.

Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°): 30°F TCC

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus.

Hazardous Products of Combustion: Irritating vapors, Oxides of carbon

Unusual Fire/Explosion Hazards: Closed containers may rupture or explode when exposed to extreme heat. Vapors may travel from container toward sources of ignition and flashback.

5. FIRE FIGHTING MEASURES

Lower Explosive Limit: 2.0%
Upper Explosive Limit: 9.0%

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Storage: Store below 100°F.
Handling: Avoid prolonged skin contact. Keep away from eyes. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Do not take internally.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.
Skin: Neoprene or nitrile gloves recommended.
Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
Respiratory Protection: An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black liquid
Odor: Solvent
Boiling Point: 200°F
pH: Does not apply
Solubility in Water: Nil
Specific Gravity: 0.86 @ 20°C
VOC(Wt.%): 81%
Vapor Pressure: <70 mmHg
Vapor Density (Air=1): 2.9 (air = 1)
Evaporation Rate: 4 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibilities: Strong oxidizers
Conditions to Avoid: Keep away from heat, sparks and open flame. - No smoking.
Hazardous Products of Combustion: Irritating vapors, Oxides of carbon

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.
US EPA Waste Number: D001/D035 as per 40CFR 261.21 and a TCLP waste per 261.24 (methyl ethyl ketone and benzene)

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Ground Transport (DOT)

DOT Shipping Name: Consumer Commodity (not more than one liter)

Hazard Class: ORM-D

UN/ID Number: None

IATA

Proper Shipping Name: Consumer Commodity (Not more than 1 liter)

14. TRANSPORTATION INFORMATION

Class or Division: Class 9
UN/ID Number: ID 8000

IMDG

Proper Shipping: Flammable liquids, n.o.s., (Toluene, methyl ethyl ketone)
Hazard Class: Class 3, PG II
UN Number: UN 1993

Marine Pollutant: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

TOLUENE

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 3, FLAMMABILITY 3, REACTIVITY 0.
Estimated HMIS Classification: HEALTH 3, FLAMMABILITY 3, PHYSICAL HAZARD 0
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