

FRC Team 2619 The Charge

Material Safety Data Sheet Information

Note: all MSDS sheets are in the Safety Binder – reference the specific MSDS for more information

1. 186 Soldering Flux

Hazards: Highly flammable liquid and vapor, causes serious eye irritation, may cause respiratory irritation, may cause drowsiness or dizziness

First Aid: *Inhalation:* Supply fresh air and consult a doctor in case of complaints; *skin contact:* Immediately wash skin with soap and water thoroughly; *eye contact:* rinse open eye for several minutes under running water, if symptoms persist, consult a doctor; *ingestion:* seek immediate medical advice

Storage: store in a cool dry place in a tightly closed container, keep away from oxidizing agents

2. 186 Flux Pen

Hazards: Highly flammable and a severe irritant, fumes may cause eye or respiratory damage

First Aid: *Eye contact:* flush eyes for 15-20 minutes with plenty of water, if symptoms persist seek medical attention; *skin contact:* immediately wash skin with soap and water, get medical attention if symptoms persist; *inhalation:* move 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

Storage: Store in a cool dry location that is well ventilated and away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use

3. Acetone

Hazards: Irritant upon skin contact and eye contact. Hazardous upon ingestion and inhalation

First Aid: *Eye contact:* check for and remove contact lenses. Flush water thoroughly with running water from at least 15 minutes with eyelid open; cold water may be used, get medical attention; *skin contact:* flush with water, cover skin with emollient, remove contaminate clothes and shoes, cold water may be used, get medical attention; *serious skin contact:* wash with disinfectant soap and cover area with anti-bacterial cream, seek medical attention; *inhalation:* move to fresh air, give artificial respiration if not breathing, if breathing is difficult give oxygen, get medical attention; *serious inhalation:* evacuate victim to safe area, loosen tight clothing (i.e. ties, collars, belts), perform mouth to mouth resuscitation if not breathing, seek

medical attention; *ingestion*: do not induce vomiting unless directed to by medical personnel, seek medical attention

Storage: store in segregated and approved area (flammables) keep container in cool, well ventilated area, keep container closed and sealed until ready for use, keep away from direct sunlight and heat and avoid all ignition sources.

4. BETAMATE 73326M

Hazards*: May cause allergic skin reaction, eye irritation, and skin irritation, elevated temperatures may cause polymerization, avoid temperatures above 200°C (392°F)

First Aid*: *Inhalation*: move person to fresh air; *skin contact**: remove material from skin by washing with soap and water, remove contaminated clothing while washing, and seek medical attention if irritation persists; *eye contact**: flush eyes thoroughly with water for several minutes, remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes, if effects occur, consult a physician; *ingestion*: if swallowed seek medical attention, do not induce vomiting unless told to do so by medical personnel

Storage: avoid contact with air (oxygen), shelf life is 6 months, should be stored at a temperature of 5°C – 35°C

**differs from BETAMATE 73327M here*

5. BETAMATE 73327M

Hazards*: Causes severe eye burns and skin burns, may cause allergic skin reaction

First Aid*: *Inhalation*: move person to fresh air; *skin contact**: flush skin with water for at least 15 minutes, seek medical attention if symptoms occur or irritation persists; *eye contact**: wash with continuous flowing water for at least 30 minutes, remove contact lenses after the first 5 minutes, obtain prompt medical consultation; *ingestion*: do not induce vomiting, give one cup (8 oz. or 240 ml) of water or milk if available and transport to a medical facility

Storage: keep container closed, store in a cool, dry, well ventilated area, shelf life is 6 months, should be stored at a temperature of 5°C – 35°C

**differs from BETAMATE 73326M here*

6. Stronger-Faster Gorilla Glue

Hazards: Harmful for inhalation, irritates eyes, respiratory system, and skin, may cause sensitization by inhalation and skin contact

First Aid: *Inhalation*: move affected individual to fresh air and keep them warm, if there is difficulty in breathing, contact a doctor; *eye contact*: flush eyes for at least 10 minutes with eyelids open, contact a doctor; *skin contact*: remove contaminated clothes immediately, wash skin with cleanser based on polyethylene glycol or with plenty of water and soap, consult a doctor in the event of a skin reaction; *ingestion*: may cause severe irritation or gastrointestinal tract and victim should not be induced to vomit, contact a doctor immediately

Storage: Keep a product away from alcohols, amines, or other materials that react with isocyanates, avoid prolonged heating above 160°C/320°F, store in a tightly sealed container in a well ventilated location

7. MOBIL VACTRA OIL NO. 2

Hazards: May cause irritation of eyes, skin, or respiratory system, may cause extreme damage if injected underneath skin

First Aid: *Inhalation:* remove from further exposure, avoid exposure if helping victim, seek immediate medical assistance, use mouth-to-mouth or a mechanical device if breathing has stopped; *skin contact:* wash contact area with soap and water, if product has been injected under skin immediately evaluate victim by physician; *eye contact:* flush thoroughly with water, if irritation occurs, get medical assistance; *ingestion:* first aid may not be needed, seek medical attention if discomfort occurs

Storage: Do not store in unlabeled or open containers, keep away from incompatible materials

8. Rustlick 631

Hazards: May cause skin, eye, and respiratory irritation, may cause headache, dizziness, and drowsiness, may cause nausea and vomiting, ingesting large quantities may cause injury and death

First Aid: *Skin contact:* wash exposed area thoroughly with soap and water, remove contaminated clothing, wash before reuse, if irritation occurs, consult a physician; *eye contact:* in case of contact, immediately flush with water for at least 15 minutes, if irritation persists, consult a physician; *inhalation:* move victim to fresh air, if irritation persists, consult a physician; *ingestion:* if swallowed, DO NOT induce vomiting, contact a physician immediately, if vomiting occurs, keep head below hips to prevent aspiration of lungs

Storage: store away from extreme heat, flame, or ignition sources, pressure may build due to heat exposure, release pressure by slowly opening container

9. MOLYKOTE(R) 557 SILICONE DRY FILM LUBRICANT

Hazards: *Short term exposure:* May cause eye, skin, and respiratory irritation, vapor may cause eye irritation, may cause dizziness, confusion, or loss of coordination, aspiration of liquid while vomiting may injure lungs severely; *long term exposure:* may cause defatting and drying of skin which may result in skin irritation and dermatitis, and may cause serious internal injury upon ingestion

First Aid: *Eye contact:* remove victim to fresh air, immediately flush eye with lukewarm, gently flowing water for 5 minutes with eyes open, get medical attention; *skin contact:* remove contaminated clothes, gently brush, or blot away chemical, flush skin with lukewarm, gently flowing water for 15 minutes, if irritation persists, continue flushing and obtain medical attention; *inhalation:* remove from source of contamination or move to fresh air, if breathing is difficult, trained personnel should administer emergency oxygen, if breathing has stopped,

trained personnel should immediately begin artificial respiration or if the heart has stopped, cardiopulmonary resuscitation, obtain medical attention; *ingestion/oral contact*: never give anything by mouth to a person convulsing or losing consciousness, have victim rinse mouth thoroughly with water, DO NOT INDUCE VOMITING, have victim drink 2, 8 oz. (60 to 240 ml) of water, if vomiting occurs naturally, have victim lean forward to reduce risk of aspiration, have victim rinse mouth again, get medical attention

Storage: store in a cool, dry, place that is well ventilated, keep away from heat, fire, and ignition sources

10. Antibacterial SCRUBBING BUBBLES Bathroom Cleaner

Hazards: May cause eye and/or skin irritation

First Aid: *Eye/skin contact*: flush immediately with plenty of water; *inhalation/ingestion*: no specific first aid required

Storage: keep from freezing, keep tightly sealed in a cool, dry, ventilated area

11. Soder-Wick(R) Lead-Free Desoldering Braid

Hazards: Fumes may be harmful, may cause skin irritation, may cause allergic reaction

First Aid: *Inhalation*: move victim to fresh air, provide artificial respiration if victim stops breathing, maintain open airway, loosen tight clothing; *Ingestion*: wash mouth with water, remove dentures if any, move victim to fresh air, if victim has swallowed any substance – give them small amounts of water to drink, give them no water if they feel as though they are sick and will throw up, do not induce vomiting unless directed to do so by medical personnel, if vomiting occurs, keep the victim low so the vomit doesn't enter the lungs, get medical attention if health effects persist, never give anything by mouth to an unconscious person, if unconscious – get medical attention; *Skin contact*: flush skin with water continue rinse for at least 10 minutes, get medical attention; *Eye contact*: immediately flush eyes with water, for at least 10 minutes, remove any contact lenses

Storage: keep container tightly sealed until ready for use

12. DYKEM Steel Blue Layout Fluid

Hazards: Eye, skin, and respiratory tract irritation. Ingestion may cause vomiting, high concentration of liquid may cause headache, dizziness, and nausea, flammable in vapor form

First Aid: *Eye/Skin Contact*: immediately flush with water for at least 15 minutes, get medical attention; *Inhalation*: remove to fresh air, if not breathing give artificial respiration, if breathing difficult, give oxygen, get medical attention; *Ingestion*: get medical attention, do not induce vomiting, never give anything by mouth to an unconscious person

Storage: keep away from heat, sparks, and open flame, keep tightly sealed, store in a cool, well ventilated place away from incompatible materials

13. TAP MAGIC ALUMINUM Cutting Fluid

Hazards: May cause headache, nasal and respiratory irritation, nausea, drowsiness, fatigue, eye irritation, and narcotic effects at high concentrations. Toxic if 3-4 oz. ingested.

First Aid: *Eye contact:* flush eyes gently with water for 15 minutes; *Skin contact:* wash with mild soap and water; *Inhalation:* remove victim to fresh air, may need artificial respiration;

Ingestion: low in toxicity, avoid epinephrine

Storage: Store in a cool, dry, well ventilated area

14. Turbo-Coat Acrylic Coating

Hazards: May cause eye/skin irritation, may dry out skin, may cause headaches and dizziness, and may cause lung damage /nervous system disturbances

First Aid: *Eye contact:* immediately flush eyes with water for at least 15 minutes, get medical attention; *Skin contact:* Wash with soap and water, get medical attention if irritation develops;

Ingestion: do not induce vomiting, give milk or water, get immediate medical attention;

Inhalation: remove to fresh air, if not breathing get artificial respiration, seek medical attention

Storage: Store in a cool, dry, well ventilated area in its original container. Keep out of direct sunlight and away from heat and flame

15. Valve Regulated Lead Acid

Hazards: May cause severe burns and blindness, may cause skin irritation or burns, swallowing may lead to severe internal burns and harmful or fatal lead poisoning, may lead to nausea, vomiting, weight loss, abdominal spasms, fatigue, and pain in arms, legs, and joints. May lead to respiratory tract irritation

First Aid: *Eye contact:* Flush eyes with lots of water for at least 15 minutes, seek immediate medical attention if eyes have been directly exposed to acid gel; *Skin contact:* flush effected area(s) with large amounts of water using a deluge shower, if available, for at least 15 minutes, if symptoms persist, get medical attention; *Ingestion:* if swallowed, give large amounts of water, DO NOT induce vomiting or aspiration into the lungs can cause permanent injury or death; *Inhalation:* if breathing difficulties develop remove person to fresh air, if symptoms persist, seek medical attention

Storage: Keep container tightly closed when not in use, if battery case breaks, use battery spill kit and DO NOT TOUCH internal components without air tight gloves. Don't handle near sparks or flames, protect containers to prevent leaks or spills, place cardboard between stacked batteries to avoid damage and short circuits, do not allow conductive material touch battery terminals

16. WD-40 Company

Hazards: Flammable aerosol, may be irritating to eyes and skin. Low oral toxicity. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Product is an aspiration hazard. May cause nasal and respiratory irritation if inhaled. Intentional abuse may be harmful or fatal.

First Aid: *Ingestion:* Aspiration hazard, DO NOT induce vomiting, call a physician or poison control center; *Eye contact:* flush thoroughly with water, remove contact lenses if present after the first 5 minutes of washing and continue washing for several more minutes. Get medical attention if irritation persists; *Skin contact:* wash with soap and plenty of water. If irritation develops and persists, get medical attention; *Inhalation:* if irritation is experienced, move to fresh air. Get medical attention if irritation or other systems develop or persist

Storage: store in a cool, well ventilated area away from incompatible materials. Do not store above 120°F or in direct sunlight

17. White Lithium Grease (aerosol)

Hazards: may cause mild eye and skin irritation. Prolonged skin contact may cause severe irritation. If inhaled, may cause irritation to respiratory tract and may cause headache, dizziness, anesthesia, drowsiness, unconsciousness, and/or other central nervous system effects, including death. If ingested, there is low toxicity, but there may be aspiration into the lungs. This may cause bronchopneumonia or pulmonary edema, which may lead to death.

First Aid: *Eye contact:* Immediately flush with plenty of water for 15 minutes, call a physician if irritation persists; *Skin contact:* wash with soap and water, remove contaminated clothing, and call a physician if irritation persists; *Inhalation:* remove victim to fresh air, if not breathing, give artificial respiration and if breathing is difficult, give oxygen; *Ingestion:* DO NOT induce vomiting, contact a physician at once

Storage: Store in a cool dry place out of direct sunlight, aerosol cans must be maintained below 120°F (49°C) to prevent cans from erupting

