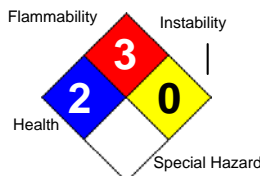


Goof Off Professional Strength VOC Compliant



| | | |
|--------------|---|---|
| HEALTH | * | 2 |
| FLAMMABILITY | | 3 |
| PHYSICAL | | 0 |
| PPE | | X |



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1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 2410.3

Product Name: Goof Off Professional Strength VOC Compliant

Manufacturer Information

Company Name: W. M. Barr
2105 Channel Avenue
Memphis, TN 38113

Phone Number: (901)775-0100

Emergency Contact: 3E 24 Hour Emergency Contact (800)451-8346

Information: W.M. Barr Customer Service (800)398-3892

Web site address: www.wmbarr.com

Preparer Name: W.M. Barr EHS Dept (901)775-0100

Intended Use: Multi-Purpose Remover for tar, ink, paint, adhesive, etc.

Product Category: General Purpose Adhesive Remover

Synonyms
FG603, FG612, FG650, FG650SK, FG651, FG651BULK, FG651BULK2, FG651BULK3, FG651UL, FG653, FG653BBLK, FG654, FG654B, FG656, FG657, FG683, FG690, FG750, 2410B.3

2. HAZARDS IDENTIFICATION

| GHS Classification | Placard | Key word | GHS hazard phrase |
|--|-------------------|----------|---|
| Flammable Liquids, Category 2 | Flame | Danger | Highly flammable liquid and vapor |
| Acute Toxicity: Inhalation, Category 4 | Exclamation point | Warning | Harmful if inhaled |
| Acute Toxicity: Skin, Category 4 | Exclamation point | Warning | Harmful in contact with skin |
| Skin Corrosion/Irritation, Category 2 | Exclamation point | Warning | Causes skin irritation |
| Serious Eye Damage/Eye Irritation, Category 2A | Exclamation point | Warning | Causes serious eye irritation |
| Target Organ Systemic Toxicity (single exposure), Category 3 | Exclamation point | Warning | May cause respiratory irritation, or may cause drowsiness and dizziness |

GHS Hazard Phrases

H225: Highly flammable liquid and vapor.
H332: Harmful if inhaled.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

GHS Precaution Phrases

P233: Keep container tightly closed.
P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.
P280: Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority.
P240: Ground/bond container and receiving equipment - if the explosive is electrostatically sensitive.

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P241: Use explosion-proof electrical/ventilating/lighting/... equipment ... other specified by the manufacturer/supplier or the competent authority. - if dust clouds can occur.

P243: Take precautionary measures against static discharge.

P242: Use only non-sparking tools.

P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P362+364: Take off contaminated clothing and wash it before reuse.

P264: Wash hands thoroughly after handling.

GHS Response Phrases

P370+378: In case of fire, use ... for extinction ... appropriate media specified by the manufacturer/supplier or the competent authority - if water increases risk.

P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P321: Specific treatment (see ... on this label) ... reference to supplemental first aid instruction - if immediate administration of antidote is required.

P332+313: If skin irritation occurs, get medical advice/attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists, get medical advice/attention.

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

GHS Storage and Disposal Phrases

P403+235: Store in cool/well-ventilated place.

P501: Dispose of contents/container to ... (in accordance with local/regional/national/international regulation).

P405: Store locked up.

P403+233: Store container tightly closed in well-ventilated place - if product is as volatile as to generate hazardous atmosphere.

Potential Health Effects (Acute and Chronic)

This product has not been tested as a whole to determine health effects. The health effects listed below are associated with the individual ingredients listed in Section 3.

INHALATION:

High vapor concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, loss of consciousness and even death). Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Intentional misuse by deliberately concentrating and inhaling solvents may be harmful or fatal.

EYES:

High vapor concentrations may cause irritation of the eyes. Causes eye irritation.

SKIN:

Prolonged or repeated contact may cause drying, cracking, or irritation.

INGESTION:

Harmful or fatal if swallowed. Pulmonary aspiration hazard. Ingestion may cause nausea, vomiting, diarrhea and inflammation of the lungs. Irritating to the throat, mouth, and stomach. May produce central nervous system effects, which include dizziness, loss of balance and coordination, unconsciousness, coma and even death.

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CHRONIC OVEREXPOSURE EFFECTS:

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Intentional misuse by deliberately concentrating and inhaling solvents may be harmful or fatal. Overexposure may cause liver and kidney injury.

TARGET ORGANS: liver, kidneys, central nervous system

PRIMARY ROUTES OF ENTRY: inhalation, ingestion, absorption

Medical Conditions Generally Aggravated By Exposure

The following diseases or disorders may be aggravated by exposure to this product: skin, eye, liver, kidney, nervous system, respiratory system

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components (Chemical Name) | CAS # | Concentration | RTECS # |
|--|-----------|---------------|-----------|
| 1. Acetone {2-Propanone} | 67-64-1 | 60.0 -100.0 % | AL3150000 |
| 2. Xylene (mixed isomers) {Benzene, dimethyl-} | 1330-20-7 | 10.0 -30.0 % | ZE2100000 |
| 3. Ethylbenzene {Ethylbenzol; Phenylethane} | 100-41-4 | < 4.0 % | DA0700000 |

4. FIRST AID MEASURES

Emergency and First Aid Procedures

Skin:

Immediately begin washing the skin thoroughly with large amounts of water and mild soap, if available, while removing contaminated clothing. Seek medical attention if irritation persists.

Eyes:

Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes, then seek immediate medical attention.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration.

Note to Physician

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

Signs and Symptoms Of Exposure

See Potential Health Effects.

5. FIRE FIGHTING MEASURES

| | |
|-------------------------------------|--|
| Flammability Classification: | NFPA Class IB |
| Flash Pt: | -4.0 F Method Used: Setaflash Closed Cup (Rapid Setaflash) |
| Explosive Limits: | LEL: No data. UEL: No data. |
| Autoignition Pt: | No data available. |

Fire Fighting Instructions

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

Flammable Properties and Hazards

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, sparks, flame, and other ignition sources distant from material handling point.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide.

Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam and/or water fog.

Unsuitable Extinguishing Media

None known.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled

Vapors may cause flash fire or ignite explosively.

Clean up: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. Use non-sparking tools. Use proper bonding and grounding methods for all equipment and processes. Keep out of waterways and bodies of water. Be cautious of vapors collecting in small enclosed spaces, sewers, low lying areas, confined spaces, etc.

Small spills: Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large spills: Dike far ahead of spill for later disposal.

Waste Disposal: Dispose in accordance with applicable local, state and federal regulations.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Do not use this product near any source of heat or open flame, furnace areas, pilot lights, stoves, etc.

Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.

Do not spread this product over large surface areas because fire and health safety risks will increase dramatically.

Precautions To Be Taken in Storing

Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

Other Precautions

Keep away from heat, sparks and open flame. No smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Hazardous Components (Chemical Name) | CAS # | OSHA PEL | ACGIH TWA | Other Limits |
|--|-----------|---------------|-------------------------------|--------------|
| 1. Acetone {2-Propanone} | 67-64-1 | PEL: 1000 ppm | TLV: 500 ppm STEL: 750 ppm | No data. |
| 2. Xylene (mixed isomers) {Benzene, dimethyl-} | 1330-20-7 | PEL: 100 ppm | TLV: 100 ppm STEL: 150 ppm | No data. |
| 3. Ethylbenzene {Ethylbenzol; Phenylethane} | 100-41-4 | PEL: 100 ppm | TLV: 100 ppm STEL: 125 ppm | No data. |

Respiratory Equipment (Specify Type)

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Eye Protection

Chemical goggles, also wear a face shield if a splashing hazard exists.

Protective Gloves

Appropriate chemical resistant gloves should be worn, such as nitrile rubber. Wear gloves with as much resistance to the chemical ingredients as possible. Other glove materials may provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.

Other Protective Clothing

To prevent skin contact wear protective clothing covering all exposed areas.

Various application methods can dictate the use of additional protective safety equipment, such as impermeable aprons to minimize exposure.

Engineering Controls (Ventilation etc.)

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

Work/Hygienic/Maintenance Practices

Wash hands thoroughly after use and before eating, drinking, smoking, or using the restroom.

Do not eat, drink, or smoke in the work area.

Discard any clothing or other protective equipment that cannot be decontaminated.

Facilities storing or handling this material should be equipped with an emergency eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------------|--|
| Physical States: | [] Gas [X] Liquid [] Solid |
| Melting Point: | No data. |
| Boiling Point: | 150 F |
| Autoignition Pt: | No data. |
| Flash Pt: | -4.0 F Method Used: Setaflash Closed Cup (Rapid Setaflash) |
| Specific Gravity (Water = 1): | 0.797 - 0.8021 |
| Density: | 6.65 LB/GL |

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Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): > 1
Evaporation Rate: > 1
Solubility in Water: Slight
Percent Volatile: 100 % by weight.
VOC / Volume: 20 % WT
Viscosity: < 5 cps

Appearance and Odor

Water white, free and clear.

Additional Physical Information

VOC (g/L): 161 g/L max

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable []

Conditions To Avoid - Instability

No data available.

Incompatibility - Materials To Avoid

Strong oxidizing agents.

Hazardous Decomposition Or Byproducts

Carbon monoxide, carbon dioxide.

Possibility of Hazardous Reactions: Will occur [] Will not occur []

Conditions To Avoid - Hazardous Reactions

No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information

This product has not been tested as a whole. Information below will be for individual ingredients.

CAS# 67-64-1:

Reproductive Effects:, TDLo, Oral, Rat, 273.0 GM/KG, male 13 week(s) pre-mating.

Result:

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

- National Technical Information Service, Vol/p/yr: PB91-18597,

Mutagenicity:, Mutation test: Cytogenetic analysis., Species: Hamster, 40.00 GM/L, Cell Type: fibroblast.

Result:

Behavioral: Coma.

Gastrointestinal: Alteration in gastric secretion.

- Food and Chemical Toxicology., Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523,

Vol/p/yr: 22,623, 1984

Acute toxicity, LD50, Oral, Rat, 5800. MG/KG.

Result:

Behavioral: Altered sleep time (including change in righting reflex).

Behavioral: Tremor.

- Journal of Toxicology and Environmental Health., Hemisphere Pub., 1025 Vermont Ave., NW, Washington, DC 20005, Vol/p/yr: 15,609, 1985

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Acute toxicity, LC50, Inhalation, Rat, 50100. MG/M3, 8 H.

Result:

Behavioral: Convulsions or effect on seizure threshold.

Behavioral: Coma.

Nutritional and Gross Metabolic: Changes in: Body temperature decrease.

- American Industrial Hygiene Association Journal., AIHA, 475 Wolf Ledges Pkwy., Akron, OH 44311,
Vol/p/yr: 20,364, 1959

Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H, Mild.

Result:

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

- Prehled Prumyslove Toxikologie, Marhold, J., Organicke Latky, Prague Czechoslovakia, Vol/p/yr: -,280, 1986

Standard Draize Test, Eyes, Species: Rabbit, 20.00 MG, 24 H, Moderate.

Result:

Behavioral: Change in motor activity (specific assay).

Behavioral: Alteration of classical conditioning.

- Prehled Prumyslove Toxikologie, Marhold, J., Organicke Latky, Prague Czechoslovakia, Vol/p/yr: -,280, 1986

CAS# 1330-20-7:

Acute toxicity, LD50, Oral, Rat, 4300. MG/KG.

Result:

Liver: Other changes.

Kidney, Ureter, Bladder: Other changes.

- AMA Archives of Industrial Health., For publisher information, see AEHLAU, Chicago, IL, Vol/p/yr: 14,387,
1956

Acute toxicity, LC50, Inhalation, Rat, 5000. PPM, 4 H.

Result:

Behavioral: Muscle contraction or spasticity.

Lungs, Thorax, or Respiration: Other changes.

- Raw Material Data Handbook, Vol.1: Organic Solvents, 1974., National Assoc. of Printing Ink Research
Institute, Francis McDonald Sinclair Memorial Labor, Lehigh Univ., Bethlehem, PA 18015, Vol/p/yr: 1,123,
1974

Acute toxicity, LD50, Skin, Species: Rabbit, 1700. MG/KG.

Result:

Kidney, Ureter, Bladder: Changes in bladder weight.

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: Transaminases.

- Raw Material Data Handbook, Vol.1: Organic Solvents, 1974., National Assoc. of Printing Ink Research
Institute, Francis McDonald Sinclair Memorial Labor, Lehigh Univ., Bethlehem, PA 18015, Vol/p/yr: 1,123,
1974

Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H, Moderate.

Result:

Reproductive: Other effects on female.

Effects on Newborn: Other neonatal measures or effects.

Effects on Embryo or Fetus: Other effects to embryo.

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- "Sbornik Vysledku Toxixologickeho Vysetreni Latek A Pripravku," , Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Prumyclu Praha Czechoslovakia, Vol/p/yr: -,24, 1972

Standard Draize Test, Eyes, Species: Rabbit, 5.000 MG, 24 H, Severe.

Result:

Behavioral: General anesthetic.

Behavioral: Somnolence (general depressed activity).

Behavioral: Irritability.

- "Sbornik Vysledku Toxixologickeho Vysetreni Latek A Pripravku," , Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Prumyclu Praha Czechoslovakia, Vol/p/yr: -,24, 1972

CAS# 100-41-4:

Mutagenicity:, Mutation test: Mutation in mammalian somatic cells., Mouse, 80.00 MG/L, Cell Type: lymphocyte..

Result:

Behavioral: Alteration of operant conditioning.

Behavioral: Changes in psychophysiological tests.

- Environmental and Molecular Mutagenesis., Alan R. Liss, Inc., 41 E. 11th St, New York, NY 10003, Vol/p/yr: 12,85, 1988

Acute toxicity, LD50, Oral, Rat, 3500. MG/KG.

Result:

Liver: Other changes.

Kidney, Ureter, Bladder:Other changes.

- AMA Archives of Industrial Health., For publisher information, see AEHLAU, Chicago, IL, Vol/p/yr: 14,387, 1956

Acute toxicity, LD50, Skin, Species: Rabbit, 17800. UL/KG.

Result:

Effects on Newborn: Physical.

Effects on Newborn: Other postnatal measures or effects.

- Food and Cosmetics Toxicology., For publisher information, see FCTOD7, London United Kingdom, Vol/p/yr: 13,803, 1975

Acute toxicity, LC50, Inhalation, Rabbit, 4000. ppm.

Result:

Behavioral: Ataxia.

Behavioral: Alteration of classical conditioning.

Open irritation test., Skin, Species: Rabbit, 15.00 MG, 24 H, Mild.

Result:

Effects on Newborn: Viability index (e.g., # alive at day {4} per # born alive).

Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day {4}).

Effects on Newborn: Biochemical and metabolic.

- American Industrial Hygiene Association Journal., AIHA, 475 Wolf Ledges Pkwy., Akron, OH 44311, Vol/p/yr: 23,95, 1962

Standard Draize Test, Eyes, Species: Rabbit, 500.0 MG, Severe.

Result:

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

- American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave., Suite 1415, Chicago, IL 60611, Vol/p/yr: 29,1363, 1946

Chronic Toxicological Effects

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans.

Carcinogenicity/Other Information

ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

ACGIH A4 - Not Classifiable as a Human Carcinogen

IARC 2B - Possibly Carcinogenic to Humans

IARC 3: Not Classifiable as to Carcinogenicity in Humans.

| Hazardous Components (Chemical Name) | CAS # | NTP | IARC | ACGIH | OSHA |
|--|-----------|------|------|-------|------|
| 1. Acetone {2-Propanone} | 67-64-1 | n.a. | n.a. | A4 | n.a. |
| 2. Xylene (mixed isomers) {Benzene, dimethyl-} | 1330-20-7 | n.a. | 3 | A4 | n.a. |
| 3. Ethylbenzene {Ethylbenzol; Phenylethane} | 100-41-4 | n.a. | 2B | A3 | n.a. |

12. ECOLOGICAL INFORMATION

General Ecological Information

This product has not been tested as a whole. Information below will be for individual ingredients.

Results of PBT and vPvB assessment

CAS# 67-64-1:

LC50, Fathead Minnow (Pimephales promelas), 9500000. UG/L, 24 H, Mortality, Water temperature: 23 C - 28 C, pH: 7.10, Hardness: 53.60 MG/L.

Result:

Sex Effects.

- Estimates of "No Effect" Concentrations of Selected Pesticides in Freshwater Organisms, Call, D.J., L.T. Brooke, and N. Ahmad, 1981

LC50, Fathead Minnow (Pimephales promelas), 9000000. UG/L, 48 H, Mortality, Water temperature: 23 C - 28 C, pH: 7.10, Hardness: 53.60 MG/L.

Result:

Age Effects.

- Estimates of "No Effect" Concentrations of Selected Pesticides in Freshwater Organisms, Call, D.J., L.T. Brooke, and N. Ahmad, 1981

LC50, Fathead Minnow (Pimephales promelas), juvenile(s), 100000. UG/L, 96 H, Mortality, Water temperature: 20 C C, pH: 8.50.

Result:

Affected fish became hypoactive.

Affected fish lost equilibrium prior to death.

- Simultaneous Evaluation of the Acute Effects of Chemicals on Seven Aquatic Species, Ewell, W.S., J.W. Gorsuch, R.O. Kringle, K.A. Robillard, and R.C. Spiegel, 1986

LC50, Water Flea (Daphnia magna), 10000. UG/L, 24 H, Mortality, Water temperature: 21 C - 25 C C.

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Result:

Age Effects.

- Toxicity of Selected Chemicals to Certain Animals, Dowden, B.F., and H.J. Bennett, 1965

LC50, Water Flea (*Daphnia magna*), 10000. UG/L, 48 H, Mortality, Water temperature: 21 C - 25 C C.

Result:

Age Effects.

- Toxicity of Selected Chemicals to Certain Animals, Dowden, B.F., and H.J. Bennett, 1965

LC50, Water Flea (*Daphnia magna*), larva(e), 100000. UG/L, 96 H, Mortality, Water temperature: 20 C C, pH: 8.50.

Result:

Age Effects.

- Simultaneous Evaluation of the Acute Effects of Chemicals on Seven Aquatic Species, Ewell, W.S., J.W. Gorsuch, R.O. Kringle, K.A. Robillard, and R.C. Spiegel, 1986

CAS# 1330-20-7:

LC50, Fathead Minnow (*Pimephales promelas*), 13400. UG/L, 96 H, Mortality, Water temperature: 24 C C, pH: 7.30, Hardness: 47.30 MG/L.

Result:

Affected fish stopped schooling behavior.

- Acute Toxicities of Organic Chemicals to Fathead Minnows (*Pimephales promelas*), Volume 5, Geiger, D.L., L.T. Brooke, and D.J. Call, 1990

LC50, Fathead Minnow (*Pimephales promelas*), 28770. UG/L, 24 H, Mortality, Water temperature: 25 C C, pH: 7.50, Hardness: 20.00 MG/L.

Result:

Age Effects.

- Acute Toxicity of Some Important Petrochemicals to Fish, Pickering, Q.H., and C. Henderson, 1966

LC50, Fathead Minnow (*Pimephales promelas*), 27710. UG/L, 48 H, Mortality, Water temperature: 25 C C, pH: 7.50, Hardness: 20.00 MG/L.

Result:

Age Effects.

- Acute Toxicity of Some Important Petrochemicals to Fish, Pickering, Q.H., and C. Henderson, 1966

LC50, Water Flea (*Daphnia magna*), 100000. - 1000000. UG/L, 24 H, Mortality, Water temperature: 21 C - 25 C C.

Result:

Age Effects.

- Toxicity of Selected Chemicals to Certain Animals, Dowden, B.F., and H.J. Bennett, 1965

CAS# 100-41-4:

LC50, Fathead Minnow (*Pimephales promelas*), 9090. UG/L, 96 H, Mortality, Water temperature: 22 C C, pH: 7.20, Hardness: 50.00 MG/L.

Result:

Affected fish stopped schooling behavior.

Affected fish became hypoactive.

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Fish were underreactive to external stimuli.

Affected fish lost equilibrium prior to death.

- Acute Toxicities of Organic Chemicals to Fathead Minnows (*Pimephales promelas*), Volume 5, Geiger, D.L., L.T. Brooke, and D.J. Call, 1990

LC50, Fathead Minnow (*Pimephales promelas*), 48510. UG/L, 48 H, Mortality, Water temperature: 25 C C, pH: 7.50, Hardness: 20.00 MG/L.

Result:

Affected fish stopped schooling behavior.

- Acute Toxicity of Some Important Petrochemicals to Fish, Pickering, Q.H., and C. Henderson, 1966

LC50, Fathead Minnow (*Pimephales promelas*), 42330. UG/L, 24 H, Mortality, Water temperature: 25 C C, pH: 8.20, Hardness: 360.00 MG/L.

Result:

Affected fish stopped schooling behavior.

- Acute Toxicity of Some Important Petrochemicals to Fish, Pickering, Q.H., and C. Henderson, 1966

LC50, Water Flea (*Daphnia magna*), 77000. UG/L, 24 H, Mortality, Water temperature: 22 C C, pH: 8.10, Hardness: 72.00 MG/L.

Result:

Affected fish became hypoactive.

Affected fish lost equilibrium prior to death.

- Acute Toxicity of Priority Pollutants to Water Flea (*Daphnia magna*), LeBlanc, G.A., 1980

LC50, Water Flea (*Daphnia magna*), neonate, 13900. UG/L, 48 H, Mortality, Water temperature: 20 C - 22 C C, pH: 8.20.

Result:

Age Effects.

- The Comparative Toxicity of Crude and Refined Oils to *Daphnia magna* and *Artemia*, MacLean, M.M., and K.G. Doe, 1989

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of waste at an approved hazardous waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations.

Do not place material in general trash.

Do not allow material to enter bodies of water or sewers.

14. TRANSPORT INFORMATION

LAND TRANSPORT (Canadian TDG)

TDG Shipping Name

Paint Related Material

Additional Transport Information

The shipper/supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

For D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.

15. REGULATORY INFORMATION

US EPA SARA Title III

| Hazardous Components (Chemical Name) | CAS # | Sec.302 (EHS) | Sec.304 RQ | Sec.313 (TRI) | Sec.110 |
|--|-----------|---------------|-------------|---------------|---------|
| 1. Acetone {2-Propanone} | 67-64-1 | No | Yes 5000 LB | No | Yes |
| 2. Xylene (mixed isomers) {Benzene, dimethyl-} | 1330-20-7 | No | Yes 100 LB | Yes | Yes |
| 3. Ethylbenzene {Ethylbenzol; Phenylethane} | 100-41-4 | No | Yes 1000 LB | Yes | Yes |

Other US EPA or State Lists

| Hazardous Components (Chemical Name) | CAS # | CAA HAP,ODC | CWA NPDES | TSCA | CA PROP.65 |
|--|-----------|-------------|-----------|-------------------|------------|
| 1. Acetone {2-Propanone} | 67-64-1 | No | No | Inventory, 4 Test | No |
| 2. Xylene (mixed isomers) {Benzene, dimethyl-} | 1330-20-7 | HAP | Yes | Inventory | No |
| 3. Ethylbenzene {Ethylbenzol; Phenylethane} | 100-41-4 | HAP | Yes | Inventory, 4 Test | Yes |

SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

- Sec.302:** EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile.
- Sec.304:** EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ.
- Sec.313:** EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
- Sec.110:** EPA SARA 110 Superfund Site Priority Contaminant List

TSCA (Toxic Substances Control Act) Lists:

- Inventory:** Chemical Listed in the TSCA Inventory.
- 5A(2):** Chemical Subject to Significant New Rules (SNURS)
- 6A:** Commercial Chemical Control Rules
- 8A:** Toxic Substances Subject To Information Rules on Production
- 8A CAIR:** Comprehensive Assessment Information Rules - (CAIR)
- 8A PAIR:** Preliminary Assessment Information Rules - (PAIR)
- 8C:** Records of Allegations of Significant Adverse Reactions
- 8D:** Health and Safety Data Reporting Rules
- 8D TERM:** Health and Safety Data Reporting Rule Terminations
- 12(b):** Notice of Export

Other Important Lists:

- CWA NPDES:** EPA Clean Water Act NPDES Permit Chemical
- CAA HAP:** EPA Clean Air Act Hazardous Air Pollutant
- CAA ODC:** EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)
- CA PROP 65:** California Proposition 65

International Regulatory Lists:

EPA Hazard Categories:

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

- Yes No Acute (immediate) Health Hazard
- Yes No Chronic (delayed) Health Hazard
- Yes No Fire Hazard
- Yes No Sudden Release of Pressure Hazard

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[] Yes [X] No Reactive Hazard

Regulatory Information Statement

All components of this material are listed on the TSCA Inventory or are exempt.

16. OTHER INFORMATION

Company Policy or Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

Revision Date: 11/26/2013

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required