

MATERIAL SAFETY DATA SHEET

MSDS NUMBER 72 Revision Date: 06/27/2002

24 HOUR EMERGENCY ASSISTANCE: GENERAL MSDS ASSISTANCE:

800-633-8253

Dion & Sons, Inc.

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

F & L SP-3 RACING FUEL

Synonyms: RACING FUEL; MOTOR FUEL

Company Identification:

Dion & Sons, Inc. F & L Racing Fuel 1543 W 16th Street Long Beach, CA 90813 Product Information:

Technical Information & MSDS Requests: (562) 432-3946 Samuel State of the State of th

SECTION 2

COMPOSITION/INFORMATION ON INGREDIENTS

	CAS NUMBER	AMOUNT	
COMPONENT	64741-66-8	35.00 - 45.00 % weight	
NAPHTHA, PETROLEUM, LIGHT ALKYLATE	70024-92-9	26.00 - 32.00 % weight	
ISOALKANES, C7-C8	108-88-3	18.00 - 21.00 % weight	
TOLUENE	78-78-4	9.50 - 11.50 % weight	
ISOPENTANE	1634-04-4	1.50 - 3.50 % weight	
Methyl-tert-butyl ether	106-97-8	1.50 - 3.50 % weight	
n-BUTANE	78-00-2	0.15 - 0.35 % weight	
TETRAETHYL LEAD		A STATE OF THE STA	

cupational Exposure Limits:	Limit	TWA	STEL	Ceiling	Notation
Component WAPHTHA, PETROLEUM, LIGHT ALKYLATE ISOALKANES, C7-C8 FOLUENE FOLUENE Methyl-tert-butyl ether n-BUTANE	CPCHEM OPCHEM ACGIH_TLV CSHA_PEL OSHA_PEL ACGIH_TLV ACGIH_TLV ACGIH_TLV ACGIH_TLV	Not Established Not Established 50 ppm 200 ppm Not Established 40 ppm 800 ppm 800 ppm 0.1 mg/m3	NA NA SOO ppm NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA	NA NA Skin NA NA NA NA NA
n-BUTANE TETRAETHYL LEAD	OSHA_PEL	0.075 mg/m3	NA	NA	NA

EMERGENCY OVERVIEW

Green liquid with a mild odor.

- EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE
- HARMFUL OR FATAL IF SWALLOWED CAN ENTER LUNGS AND CAUSE DAMAGE - MAY CAUSE CNS DEPRESSION
- CONTAINS LEAD
- VAPOR HARMFUL
- CAUSES EYE IRRITATION
- CAUSES SKIN IRRITATION
- BIRTH DEFECT HAZARD MAY CAUSE BIRTH DEFECTS
- TOXIC TO AQUATIC ORGANISMS

Eye: Contact with the eyes causes irritation. Symptoms may include pain, tearing, reddening, swelling and impaired vision.

Eye. Contact with the eyes causes intration. Symptoms may include pain, teating, reddening, swelling and impaired vision. Symptoms may include pain, Skin: Prolonged or repeated skin contact may cause drying or defatting of the skin. Contact with the skin causes irritation. Symptoms may include pain,

itching, discoloration, swelling, and blistering. Not expected to be harmful to internal organs if absorbed through the skin. Ingestion: Not expected to be harmful if swallowed. Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently

volumes. Once in the lungs it is very unifoun to remove and cause severe injury or death.

Inhalation: The vapor or fumes from this material may cause respiratory irritation. Symptoms of respiratory irritation may include coughing and difficulty breathing. Breathing this material at concentrations above the recommended exposure limits may cause central nervous system effects. Central nervous Exposure the control of the control extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

Reproduction and Birth Defects: Concentrations of this material above the recommended exposure limit may cause birth defects. DELAYED OR OTHER HEALTH EFFECTS: See Section 11for additional information. Risk depends on duration and level of exposure.

FIRST AID MEASURES

Eye: Flush eyes with water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and

continue flushing for at least 15 minutes. Get medical attention if irritation persists. Skin: Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before

Ingestion: If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give the person a glass of

water or milk to drink and get medical attention. Never give anything by mouth to an unconscious person. inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get

Note to Physicians: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

FIRE FIGHTING MEASURES

See Section 7 for proper handling and storage.

OSHA Classification (29 CFR 1910.1200): Extremely flammable liquid.

NFPA RATINGS: Health: 1 Flammability: 3

FLAMMABLE PROPERTIES:

Flashpoint:

(-34.6°F) -37°C

Upper: NDA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. Lower: NDA Flammability (Explosive) Limits (% by volume in air):

Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the

work area, evacuate the area immediately. Monitor area with combustible gas indicator. Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to

reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: U.S.A. regulations require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the U.S. Coast Guard National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7

HANDLING AND STORAGE

The god was fire about the READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL . REFER TO PRODUCT LABEL OR MANUFACTURERS TECHNICAL BULLETINS FOR THE PROPER USE AND HANDLING OF THIS MATERIAL.

Precautionary Measures: This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (furnes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding which can calculate and punt with explosive violence. Invisible vapor spreads easily and can be set on the py many sources such as prior lights, welding equipment, and electrical motors and switches. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not breathe vapor or fumes. Equipment, and excursed the syntheses. Do not get in eyes, on shall, or on clothing. Yeash tholoughly and marking. Do not bleathe vapor or runes.

Unusual Handling Hazards: Due to the presence of naphthalenes in this material, heat tracing (to 180 F) of tank or vessel relief devices is recommended.

Repulling the carry apprice and contrense to solids (desurbiting) and possibly block relief devices.

General Handling Information: Avoid work practices that may release volatile components in the atmosphere. Local air pollution regulations should be consulted to determine if the release of volatile components is regulated or restricted in the area in which this material is used. Avoid contaminating soil or

releasing this material into sewage and cramage systems and bodies or water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and releasing this material into sewage and drainage systems and bodies of water. Static Flazard. Electrostatic Gray accumulate and create a nazardous condition when hard the potential of generating an accumulation of grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating an accumulation of grounding may be necessary burning not, by memberses, be sumdent. Neview an operations, which have the potential or generating an accumulation of generating an accumulation of the sum of

THEFING, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, mixing, agriation, and vacuum truck operations, and use appropriate mitigating procedures. For more information, refer to Corn Clarifold 25 of N. 1576. The Procedure of the American (NEPA 77), 'Recommended Practice on Static Electricity', and/or the American 'Flammable and Combustible Liquids', National Fire Protection Association (NEPA 77), 'Recommended Practice on Static Electricity', and/or the American

Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

General Storage Information: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. General Storage Information: Container is not designed to contain pressure. Do not use pressure to empty container or it may repture with exposite foliation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose Emply containers retain product resture (solid, riquid, arteror vapor) and can be dangerous. So not pressure, out, ward, brace, solider, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner, or disposed of properly. DO NOT USE OR STORE near heat, sparks

or open flames. USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use. Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut; weld, braze, solder, drill, grind, or expose such containers retain product residue (some, riquid, angroir vapor) and can be dangerous. Bo not pressure, out, merc, braze, somer, drin, grind, or expose successful product residue (some containers) and can be dangerous. They may explode and cause injury or death. Empty containers should be

drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended **ENGINEERING CONTROLS:** exposure limits.

EyelFace Protection: Wear eye protection such as safety glasses, chemical goggles, or faceshields if engineering controls or work

Skin Protection: Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, practices are not adequate to prevent eye contact.

apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing. Suggested materials for protective gloves include: Chlorinated Polyethylene (or Chlorosulfonated Polyethylene), or Nitrile

Respiratory Protection: Determine if airborne concentrations are below the recommended exposure limits. If not, wear a NIOSH approved respirator that Rubber, or Polyurethane, or Viton provides adequate protection from measured concentrations of this material, such as: Supplied-Air Respirator, or Air-Purifying Respirator for Organic Vapors, or Self-contained breathing apparatus (SCBA) for use in environments with unknown concentrations or emergency situations. Use a positive pressure, airsupplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

ccupational Exposure Limits:	Limit	TWA	STEL	Ceiling	Notation
Component NAPHTHA, PETROLEUM, LIGHT ALKYLATE ISOALKANES, C7-C8 TOLUENE TOLUENE Methyl-tert-butyl ether Methyl-tert-butyl ether n-BUTANE n-BUTANE	CPCHEM CPCHEM ACGIH_TLV OSHA_PEL OSHA_PEL ACGIH_TLV ACGIH_TLV OSHA_PEL ACGIH_TLV	Not Established Not Established 50 ppm 200 ppm Not Established 40 ppm 800 ppm 800 ppm 0.1 mg/m3	NA NA NA 500 ppm NA NA NA NA	NA NA NA NA NA NA NA NA	NA NA Skin NA NA NA NA
TETRAETHYL LEAD	OSHA PEL	0.075 mg/m3	· NA	NA	NA
TETRAETHYL LEAD	4,897,30			10 m	

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Green liquid with a mild odor.

pH: NA

VAPOR PRESSURE:

5.3 - 6.7 psia @ 38 °C

VAPOR DENSITY (AIR=1): 3-4 29 - 149°C (300.2°F)

BOILING POINT:

Negligible

SOLUBILITY: SPECIFIC GRAVITY:

0.74@16°C

SECTION 10

STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: Carbon oxides and various hydrocarbons when burned.

Hazardous Polymerization: Hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS:

Acute Dermal Toxicity: The dermal LD50 in the rabbit is 14.1 g/kg. The acute dermal toxicity is based on test results for TOLUENE. Acute Inhalation Toxicity: The inhalation LC50 in the rat is 8000-8800 ppm after 4 hour(s) exposure. The acute inhalation toxicity is based on test results for TOLUENE.

Eye Irritation: This material is irritating to the eyes. The eye irritation hazard is based on test results for TOLUENE. Skin Irritation: This material is irritating to the skin. The dermal irritation hazard is based on test results for TOLUENE.

ADDITIONAL TOXICOLOGY INFORMATION:

GENERAL TOXICITY: The primary effects of exposure to toluene in animals and humans are on the central nervous system. Solvent abusers, who periods of time, in addition to experiencing respiratory tract irritation, often suffer permanent central nervous system typically inhale high concentrations (thousands of ppm) for brief effects that include tremors, staggered gait, impaired speech, hearing and vision loss, and changes in brain tissue. Death in some solvent abusers has been attributed to cardiac arrhythmias, which appear to be have been triggered by epinephrine

acting on solvent sensitized cardiac tissue. Although liver and kidney effects have been seen in some solvent abusers, results of animal testing with toluene do acting our solvent sensitized calculactissue. Authoriginated and Notice enects have been seen in soline solvent adusers, results of annual testing with foldere not support these as primary target organs. HEARING: Humans who were occupationally exposed to concentrations of toluene as low as 100 ppm for long ribusalphorumese as partially target organis. The ribusal value were occupationally exposed to concentrations of tollege as low as 100 pprinter long periods of time have experienced hearing deficits. Hearing loss, as demonstrated using behavioral and electrophysiological testing as well as by observation of

The discomposite to continue that course and noise may interact to produce hearing deficits. COLOR VISION: In a single study of workers exposed to toluene at levels under 50 ppm, small decreases in the ability to discriminate colors in the blue-yellow range have been reported for female workers. This effect, which revers under 50 ppm, sman decreases in the ability to discriminate colors in the blue-yellow range have been reported for remain decreases in the ability to discriminate colors in the blue-yellow range have been reported for reported for remain decreases in the ability to discriminate colors in the blue-yellow range have been reported for remain decreases in the ability to discriminate colors in the blue-yellow range have been reported for remain decreases in the ability to discriminate colors in the blue-yellow range have been reported for remaining to discriminate colors in the blue-yellow range have been reported for remaining the remaining for remaining the remaining for remaining the remaining for rema

rougher may also cause mental and/or growth retardation in the children of female solvent abusers who directly inhale toluene (usually at thousands of ppm) when they are pregnant. Toluene caused growth retardation in rats and rabbits when administered at doses that were toxic to the mothers. In rats, concentrations of up to are pregnant, concern caused grown recardation in rate and rabbits when administered at doses that did not intoxicate the pregnant animals. The exposure level at 5000 ppm did not cause birth defects. No effects were observed in the offspring at doses that did not intoxicate the pregnant animals. The exposure level at which no effects were seen (No Observed Effect Level, NOEL) is 750 ppm in the rat and 500 ppm in the and the state of t

Isopentane did not produce kidney damage in a subchronic oral laboratory study or in a subchronic inhalation exposure to 4500 ppm and 1000 ppm of a 50/50 mixture of isobutane and isopentane.

An atmospheric concentration of 100,000 ppm (10%) butane is not noticeably irritating to the eyes, nose or respiratory tract, but will produce slight dizziness in a few minutes of exposure. No chronic systemic effect has been reported from occupational exposure. Laboratory animals have exhibited a higher degree of a new minutes or exposure. No ontonic systemic effect has been reported nonroccupational exposure. Laboratory animals have exhibited a higher degree of narcosis when exposed to both bulane and butylene (additive effect), than the degree of narcosis exhibited following exposure to butane or butylene alone.

Fuels containing lead anti-knock compounds should be handled in such a way to minimize contact with the body. Lead can accumulate in the body with overexposure and cause illness due to effects on the blood, nerves, kidneys and the reproductive system.

SECTION 12

ECOLOGICAL INFORMATION

This material is expected to be toxic to aquatic organisms. Gasoline studies have been conducted in the laboratory under a variety of test conditions with a range of fish and invertebrate species. An even more extensive database is available on the aquatic toxicity of individual aromatic constituents. The majority of published studies do not identify the type of gasoline evaluated, or even provide distinguishing characteristics such as aromatic content or presence of lead alkyls. As a result, comparison of results among studies using open and closed vessels, different ages and species of test animals and different gasoline types, is difficult.

The bulk of the available literature on gasoline relates to the environmental impact of monoaromatic (BTEX) and diaromatic (naphthalene, methylnaphthalenes) constituents. In general, non-oxygenated gasoline exhibits some short-term toxicity to freshwater enaphratalene, mentional and antional and marine organisms, especially under closed vessel or flow-through exposure conditions in the laboratory. The components which are the most prominent in the water soluble fraction and cause aquatic toxicity, are also highly volatile and can be readily biodegraded by microorganisms.

The 96 hour(s) LC50 for pink salmon (Oncorhynchus gorbuscha) is 6.4 - 8.1 mg/l. This information is based on test data from the

The 96 hour(s) LC50 for rainbow trout (Oncorhynchus mykiss) is 5.8 mg/kg. This information is based on test data from the component TOLUENE.

The 96 hour(s) LC50 for fathead minnow (Pimephales promelas) is 18-36 mg/l. This information is based on test data from the component:TOLUENE.

Toluene is volatile and when released into water will be volatilized to the atmosphere where it is degraded with a half-life of 10 to 104 hours. Toluene is readily biodegradable in tests using sewage or sludge inocula. The biodegradation half-life for toluene in surface waters and soils is expected to range from 4 to 22 days. Toluene that does not evaporate following release to soil is expected to be highly mobile and may leach to groundwater. In groundwater, toluene has been reported to be degraded in 7 to 28 days.

Following spillage, the more volatile components of gasoline will be rapidly lost, with concurrent dissolution of these and other constituents into the water. Factors such as local environmental conditions (temperature, wind, mixing or wave action, soil type, etc), photo-oxidation, biodegradation and adsorption onto suspended sediments, can contribute to the weathering of spilled gasoline.

The aqueous solubility of non-oxygenated unleaded gasoline, based on analysis of benzene, toluene, ethylbenzene+xylenes and naphthalene, is reported to be 112 mg/l. Solubility data on individual gasoline constituents also available.

SECTION 13

DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14

TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Name:

GASOLINE

DOT Hazard Class:

3 (Flammable Liquid)

DOT Identification Number:

UN1203

DOT Packing Group:

H

DOT Additional Information:

MARINE POLLUTANT (GASOLINE, LEADED)

SECTION 15

REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

1. Immediate (Acute) Health Effects: YES 2. Delayed (Chronic) Health Effects: YES YES

3. Fire Hazard:

4. Sudden Release of Pressure Hazard: NO

Reactivity Hazard:

NO

REGULATORY LISTS SEARCHED:

21 = TSCA Section 5(a) 12 = TSCA Section 8(a) PAIR

25 = CAA Section 112 HAPs 04A = IARC Group 1 13 = TSCA Section 8(d) 26 = CWA Section 311 04B = IARC Group 2A 15 = SARA Section 313 28 = CWA Section 307 04C = IARC Group 2B 16 = CA Proposition 65 30 = RCRA Waste P-List

05 = NTP Carcinogen 17 = MA RTK 31 = RCRA Waste U-List 06 = OSHA Carcinogen 18 = NJ RTK 32 = RCRA Appendix VIII 09 = TSCA 12(b) 19 = DOT Marine Pollutant

33 = MN Hazardous Substance 10 = TSCA Section 4 20 = PA RTK 11 = TSCA Section 8(a) CAIR

The following components of this material are found on the regulatory lists indicated.

16, 18, 25, 26, 32 TETRAETHYL LEAD

15, 16, 17, 18, 20, 25, 31 TOLUENE

17, 18, 20, 25 n-BUTANE 18, 20, 25 ISOPENTANE

ISOPENTAINE		RESHOLD PLANNING QUANTITIES(T	rPQ):
CERCLA REPORTABLE QU	ANTITIES (RQ)/SARA 302 TIII	Component TPQ	Product RQ
Component	Component RQ	None	4761.904762 lbs
TOLUENE	1000 lbs		2857.142857 lbs
TETRAETHYL LEAD	10 lbs	None	

WHMIS CLASSIFICATION:

Class B, Division 2: Flammable Liquids

Class D, Division 2, Subdivision A: Very Toxic Material - Carcinogenicity

Teratogenicity and Embryotoxicity

Class D. Division 2, Subdivision B: Toxic Material -

Skin or Eye Irritation

AUSTRALIA: All the components of this material are listed on the Australian Inventory of Chemical Substances (AICS).

PEOPLE'S REPUBLIC OF CHINA: All the components of this product are listed on the draft Inventory of Existing Chemical

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

KOREA: All the components of this product are on the Existing Chemicals List (ECL) in Korea.

PHILIPPINES: All the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances

UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

OTHER INFORMATION

NFPA RATINGS:

Health: 1

Flammability: 3 Reactivity: 0

Flammability: 3 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: This is an original Dion & Sons, Inc. MSDS. It has been created out of a new authoring system under direction of Dion & Sons, Inc. Company of the Angel State

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value

TWA - Time Weighted Average

STEL - Short-term Exposure Limit

PEL - Permissible Exposure Limit

ACGIH - American Conference of Government

OSHA - Occupational Safety & Health

Industrial Hygienists

NIOSH - National Institute of Safety & Health

NFPA - National Fire Protection Agency

WHMIS - Workplace Hazardous Materials

Information System

IRAC - Intl. Agency for Research on Cancer

EINECS - European Inventory of existing

RCRA - Resource Conservation Recovery Act

Commercial Chemical Sales

SARA - Superfund Amendments and

TSCA - Toxic Substance Control Act

Reauthorization Act. EC50 - Effective Dose LC50 - Lethal Concentration

LD50 - Lethal Dose

CAS - Chemical Abstract Service Number

NDA - No Data Available

NA - Not Applicable

<= - Less Than or Equal To CNS - Central Nervous System >= - Greater Than or Equal To

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by: Dion & Sons, Inc., 1543 w 16th Street, Long Beach, CA 90813

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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