

SDS E5515

ITEM: 541 H43- Marking Paint, 20 oz, Fluorescent Green
DELIVERY: 6580667655
SAFETY DATA SHEET (SDS)

HU NUMBER: U864448716

This SDS should be attached or kept with the respective product with which it is associated.

SDS - E5515

Associated Items
54TH43

SAFETY DATA SHEET

Z11G80100-EHSRA

-----SECTION 1. IDENTIFICATION -----

PRODUCT NAME: 15687 EMULSION SB MARK FLUOR G

PRODUCT CODE: Z11G80100-EHSRA

OTHER MEANS OF IDENTIFICATION: NOT AVAILABLE.

CAS #: NOT APPLICABLE.

PRODUCT TYPE: SPRAY

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST: NOT APPLICABLE.

MANUFACTURER:
THE SHERWIN-WILLIAMS COMPANY
101 PROSPECT AVENUE N.W.
CLEVELAND, OHIO 44115

EMERGENCY TELEPHONE NUMBER OF THE COMPANY: (216) 566-2917

PRODUCT INFORMATION TELEPHONE NUMBER: NOT AVAILABLE.

REGULATORY INFORMATION TELEPHONE NUMBER: (216) 566-2902

TRANSPORTATION EMERGENCY TELEPHONE NUMBER: (800) 424-9300

-----SECTION 2. HAZARDS IDENTIFICATION -----

OSHA/HCS STATUS:
THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

FLAMMABLE AEROSOLS: CATEGORY 1

GASES UNDER PRESSURE: COMPRESSED GAS

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (RESPIRATORY TRACT IRRITATION): CATEGORY 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (NARCOTIC EFFECTS): CATEGORY 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): CATEGORY 2

ASPIRATION HAZARD: CATEGORY 1

PERCENTAGE OF THE MIXTURE CONSISTING OF INGREDIENT(S) OF UNKNOWN TOXICITY: 41.3%

GHS LABEL ELEMENTS:

HAZARD PICTOGRAMS:
FLAME
GAS CYLINDER
HEALTH HAZARD
EXCLAMATION MARK

SIGNAL WORD: DANGER

HAZARD STATEMENTS:
EXTREMELY FLAMMABLE AEROSOL.
CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
MAY CAUSE RESPIRATORY IRRITATION.
MAY CAUSE DROWSINESS OR DIZZINESS.
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

PRECAUTIONARY STATEMENTS:

PREVENTION:
KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING. DO NOT SPRAY ON AN OPEN FLAME OR OTHER IGNITION SOURCE. USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. DO NOT BREATHE VAPOR.

PRESSURIZED CONTAINER: DO NOT PIERCE OR BURN, EVEN AFTER USE.

RESPONSE:
GET MEDICAL ATTENTION IF YOU FEEL UNWELL.IF INHALED:
REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. CALL A POISON CENTER OR PHYSICIAN IF YOU FEEL UNWELL.

IF SWALLOWED:

IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. DO NOT INDUCE VOMITING.

STORAGE:
STORE LOCKED UP. PROTECT FROM SUNLIGHT. DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C/122 DEG. F. STORE IN A WELL-VENTILATED PLACE.DISPOSAL:
DISPOSE OF CONTENTS AND CONTAINER IN ACCORDANCE WITH ALL LOCAL, REGIONAL, NATIONAL AND INTERNATIONAL REGULATIONS.

SUPPLEMENTAL LABEL ELEMENTS:

DANGER:
RAGS, STEEL WOOL, OTHER WASTE SOAKED WITH THIS PRODUCT, AND SANDING RESIDUE MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY PLACE RAGS, STEEL WOOL, OTHER WASTE SOAKED WITH THIS PRODUCT, AND SANDING RESIDUE IN A SEALED, WATER-FILLED, METAL CONTAINER. DISPOSE OF IN ACCORDANCE WITH LOCAL FIRE REGULATIONS. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. CONTAINS SOLVENTS WHICH CAN CAUSE PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS CAN BE HARMFUL OR FATAL.WARNING:
THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. FOR INDUSTRIAL USE ONLY.

PLEASE REFER TO THE SDS FOR ADDITIONAL INFORMATION. KEEP OUT OF REACH OF CHILDREN. KEEP UPRIGHT IN A COOL, DRY PLACE. DO NOT DISCARD EMPTY CAN IN TRASH COMPACTOR.

HAZARDS NOT OTHERWISE CLASSIFIED: NONE KNOWN.

-----SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS -----

SUBSTANCE/MIXTURE: MIXTURE

OTHER MEANS OF IDENTIFICATION: NOT AVAILABLE.

CAS NUMBER/OTHER IDENTIFIERS:

INGREDIENT NAME % BY WEIGHT CAS NUMBER

LT. ALIPHATIC HYDROCARBON SOLVENT 27.74 64742-89-8

PROPANE 12.24 74-98-6

BUTANE 5.76 106-97-8

N-BUTYL ACETATE 4.35 123-86-4

MINERAL SPIRITS 140-FLASH 1.3 64742-88-7

ANY CONCENTRATION SHOWN AS A RANGE IS TO PROTECT CONFIDENTIALITY OR IS DUE TO BATCH VARIATION.

THERE ARE NO ADDITIONAL INGREDIENTS PRESENT WHICH, WITHIN THE CURRENT KNOWLEDGE OF THE SUPPLIER AND IN THE CONCENTRATIONS APPLICABLE, ARE CLASSIFIED AS HAZARDOUS TO HEALTH AND HENCE REQUIRE REPORTING IN THIS SECTION.

OCCUPATIONAL EXPOSURE LIMITS, IF AVAILABLE, ARE LISTED IN SECTION 8.

-----SECTION 4. FIRST AID MEASURES -----

DESCRIPTION OF NECESSARY FIRST AID MEASURES:

EYE CONTACT: GET MEDICAL ATTENTION FOLLOWING EXPOSURE OR IF FEELING UNWELL.

INHALATION:
IF IT IS SUSPECTED THAT FUMES ARE STILL PRESENT, THE RESCUER SHOULD WEAR AN APPROPRIATE MASK OR SELF-CONTAINED BREATHING APPARATUS. IT MAY BE DANGEROUS TO THE PERSON PROVIDING AID TO GIVE MOUTH-TO-MOUTH RESUSCITATION. GET MEDICAL ATTENTION. IF NECESSARY, CALL A POISON CENTER OR PHYSICIAN. IN CASE OF INHALATION OF DECOMPOSITION PRODUCTS IN A FIRE, SYMPTOMS MAY BE DELAYED. THE EXPOSED PERSON MAY NEED TO BE KEPT UNDER MEDICAL SURVEILLANCE FOR 48 HOURS.SKIN CONTACT:
CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. GET MEDICAL ATTENTION FOLLOWING EXPOSURE OR IF FEELING UNWELL.INGESTION:
GET MEDICAL ATTENTION IMMEDIATELY. CALL A POISON CENTER OR PHYSICIAN. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. DO NOT INDUCE VOMITING.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

POTENTIAL ACUTE HEALTH EFFECTS:

EYE CONTACT: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

INHALATION:
CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION. MAY CAUSE DROWSINESS OR DIZZINESS. MAY CAUSE RESPIRATORY IRRITATION.

SKIN CONTACT: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.



INGESTION:
CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

OVER-EXPOSURE SIGNS/SYMPTOMS:

EYE CONTACT: NO SPECIFIC DATA.

INHALATION:

ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING:
RESPIRATORY TRACT IRRITATION
COUGHING
NAUSEA OR VOMITING
HEADACHE
DROWSINESS/FATIGUE
DIZZINESS/VERTIGO
UNCONSCIOUSNESS

SKIN CONTACT: NO SPECIFIC DATA.

INGESTION:
ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: NAUSEA OR VOMITING

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

NOTES TO PHYSICIAN:
IN CASE OF INHALATION OF DECOMPOSITION PRODUCTS IN A FIRE, SYMPTOMS MAY BE DELAYED. THE EXPOSED PERSON MAY NEED TO BE KEPT UNDER MEDICAL SURVEILLANCE FOR 48 HOURS.

SPECIFIC TREATMENTS: NO SPECIFIC TREATMENT.

PROTECTION OF FIRST-AIDERS:
NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. IF IT IS SUSPECTED THAT FUMES ARE STILL PRESENT, THE RESCUER SHOULD WEAR AN APPROPRIATE MASK OR SELF-CONTAINED BREATHING APPARATUS. IT MAY BE DANGEROUS TO THE PERSON PROVIDING AID TO GIVE MOUTH-TO-MOUTH RESUSCITATION.

SEE TOXICOLOGICAL INFORMATION (SECTION 11)

-----SECTION 5. FIRE-FIGHTING MEASURES -----

EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA:
USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

UNSUITABLE EXTINGUISHING MEDIA: NONE KNOWN.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:
EXTREMELY FLAMMABLE AEROSOL. IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST, WITH THE RISK OF A SUBSEQUENT EXPLOSION. GAS MAY ACCUMULATE IN LOW OR CONFINED AREAS OR TRAVEL A CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK, CAUSING FIRE OR EXPLOSION. BURSTING AEROSOL CONTAINERS MAY BE PROPELLED FROM A FIRE AT HIGH SPEED. RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

DECOMPOSITION PRODUCTS MAY INCLUDE THE FOLLOWING MATERIALS:
CARBON DIOXIDE
CARBON MONOXIDE
NITROGEN OXIDES
SULFUR OXIDES
METAL OXIDE/OXIDES

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:
PROMPTLY ISOLATE THE SCENE BY REMOVING ALL PERSONS FROM THE VICINITY OF THE INCIDENT IF THERE IS A FIRE. NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. MOVE CONTAINERS FROM FIRE AREA IF THIS CAN BE DONE WITHOUT RISK. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:

-----SECTION 6. ACCIDENTAL RELEASE MEASURES -----

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

FOR NON-EMERGENCY PERSONNEL:
IN THE CASE OF AEROSOLS BEING RUPTURED, CARE SHOULD BE TAKEN DUE TO THE RAPID ESCAPE OF THE PRESSURIZED CONTENTS AND PROPELLANT. IF A LARGE NUMBER OF CONTAINERS ARE RUPTURED, TREAT AS A BULK MATERIAL SPILLAGE ACCORDING TO THE INSTRUCTIONS IN THE CLEAN-UP SECTION. SHUT OFF ALL IGNITION SOURCES. NO FLARES, SMOKING OR FLAMES IN HAZARD AREA.

FOR EMERGENCY RESPONDERS:
IF SPECIALIZED CLOTHING IS REQUIRED TO DEAL WITH THE SPILLAGE, TAKE NOTE OF ANY INFORMATION IN SECTION 8 ON SUITABLE AND UNSUITABLE MATERIALS. SEE ALSO THE INFORMATION IN "FOR NON-EMERGENCY PERSONNEL".

ENVIRONMENTAL PRECAUTIONS: NO SPECIFIC HAZARD.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:
SMALL SPILL: USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT.
LARGE SPILL: USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT.

NOTE:
SEE SECTION 1 FOR EMERGENCY CONTACT INFORMATION AND SECTION 13 FOR WASTE DISPOSAL.

-----SECTION 7. HANDLING AND STORAGE -----

PRECAUTIONS FOR SAFE HANDLING:

PROTECTIVE MEASURES:

PRESSURIZED CONTAINER:
PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C. DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT SWALLOW. USE ONLY WITH ADEQUATE VENTILATION. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE. STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER IGNITION SOURCE. USE EXPLOSION-PROOF ELECTRICAL (VENTILATING, LIGHTING AND MATERIAL HANDLING) EQUIPMENT. USE ONLY NON-SPARKING TOOLS.

ADVICE ON GENERAL OCCUPATIONAL HYGIENE:
WORKERS SHOULD WASH HANDS AND FACE BEFORE EATING, DRINKING AND SMOKING. REMOVE CONTAMINATED CLOTHING AND PROTECTIVE EQUIPMENT BEFORE ENTERING EATING AREAS. SEE ALSO SECTION 8 FOR ADDITIONAL INFORMATION ON HYGIENE MEASURES.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
STORE IN ACCORDANCE WITH LOCAL REGULATIONS. PROTECT FROM SUNLIGHT. STORE LOCKED UP. ELIMINATE ALL IGNITION SOURCES.

-----SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION -----

CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS (OSHA UNITED STATES):

INGREDIENT NAME EXPOSURE LIMITS

LT. ALIPHATIC HYDROCARBON SOLVENT NONE.

PROPANE NIOSH REL (UNITED STATES, 10/2013).
TWA: 1000 PPM 10 HOURS.
TWA: 1800 MG/M3 10 HOURS.

OSHA PEL (UNITED STATES, 6/2016).
TWA: 1000 PPM 8 HOURS.
TWA: 1800 MG/M3 8 HOURS.

BUTANE NIOSH REL (UNITED STATES, 10/2013).
TWA: 800 PPM 10 HOURS.
TWA: 1900 MG/M3 10 HOURS.

ACGIH TLV (UNITED STATES, 3/2016).
STEL: 1000 PPM 15 MINUTES.

N-BUTYL ACETATE NIOSH REL (UNITED STATES, 10/2013).
TWA: 150 PPM 10 HOURS.
TWA: 710 MG/M3 10 HOURS.

STEL: 200 PPM 15 MINUTES.
STEL: 950 MG/M3 15 MINUTES.

OSHA PEL (UNITED STATES, 6/2016).
TWA: 150 PPM 8 HOURS.
TWA: 710 MG/M3 8 HOURS.

ACGIH TLV (UNITED STATES, 3/2016).
STEL: 150 PPM 15 MINUTES.
TWA: 50 PPM 8 HOURS.

MINERAL SPIRITS 140-FLASH OSHA PEL (UNITED STATES, 6/2016).
TWA: 100 PPM 8 HOURS.
TWA: 400 MG/M3 8 HOURS.

OCCUPATIONAL EXPOSURE LIMITS (CANADA):

INGREDIENT NAME EXPOSURE LIMITS

PROPANE CA ALBERTA PROVINCIAL (CANADA, 4/2009).
8 HRS OEL: 1000 PPM 8 HOURS.

CA BRITISH COLUMBIA PROVINCIAL (CANADA, 5/2015).
TWA: 1000 PPM 8 HOURS.

CA QUEBEC PROVINCIAL (CANADA, 1/2014).
TWA EV: 1000 PPM 8 HOURS.
TWA EV: 1800 MG/M3 8 HOURS.

CA ONTARIO PROVINCIAL (CANADA, 7/2015).
TWA: 1000 PPM 8 HOURS.

CA SASKATCHEWAN PROVINCIAL (CANADA, 7/2013).
STEL: 1250 PPM 15 MINUTES.
TWA: 1000 PPM 8 HOURS.

APPROPRIATE ENGINEERING CONTROLS:
USE ONLY WITH ADEQUATE VENTILATION. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP WORKER EXPOSURE TO AIRBORNE CONTAMINANTS BELOW ANY RECOMMENDED OR STATUTORY LIMITS. THE ENGINEERING CONTROLS ALSO NEED TO KEEP GAS, VAPOR OR DUST CONCENTRATIONS BELOW ANY LOWER EXPLOSIVE LIMITS. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

ENVIRONMENTAL EXPOSURE CONTROLS:
EMISSIONS FROM VENTILATION OR WORK PROCESS EQUIPMENT SHOULD BE CHECKED TO ENSURE THEY COMPLY WITH THE REQUIREMENTS OF ENVIRONMENTAL PROTECTION LEGISLATION. IN SOME CASES, FUME SCRUBBERS, FILTERS OR ENGINEERING MODIFICATIONS TO THE PROCESS EQUIPMENT WILL BE NECESSARY TO REDUCE EMISSIONS TO ACCEPTABLE LEVELS.

INDIVIDUAL PROTECTION MEASURES:

HYGIENE MEASURES:



WASH HANDS, FOREARMS AND FACE THOROUGHLY AFTER HANDLING CHEMICAL PRODUCTS, BEFORE EATING, SMOKING AND USING THE LAVATORY AND AT THE END OF THE WORKING PERIOD. APPROPRIATE TECHNIQUES SHOULD BE USED TO REMOVE POTENTIALLY CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE REUSING. ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE CLOSE TO THE WORKSTATION LOCATION.

EYE/FACE PROTECTION:
SAFETY EYEWEAR COMPLYING WITH AN APPROVED STANDARD SHOULD BE USED WHEN A RISK ASSESSMENT INDICATES THIS IS NECESSARY TO AVOID EXPOSURE TO LIQUID SPLASHES, MISTS, GASES OR DUSTS. IF CONTACT IS POSSIBLE, THE FOLLOWING PROTECTION SHOULD BE WORN, UNLESS THE ASSESSMENT INDICATES A HIGHER DEGREE OF PROTECTION: SAFETY GLASSES WITH SIDE-SHIELDS.

SKIN PROTECTION:

HAND PROTECTION:

BODY PROTECTION:
PERSONAL PROTECTIVE EQUIPMENT FOR THE BODY SHOULD BE SELECTED BASED ON THE TASK BEING PERFORMED AND THE RISKS INVOLVED AND SHOULD BE APPROVED BY A SPECIALIST BEFORE HANDLING THIS PRODUCT. WHEN THERE IS A RISK OF IGNITION FROM STATIC ELECTRICITY, WEAR ANTI-STATIC PROTECTIVE CLOTHING. FOR THE GREATEST PROTECTION FROM STATIC DISCHARGES, CLOTHING SHOULD INCLUDE ANTI-STATIC OVERALLS, BOOTS AND GLOVES.

OTHER SKIN PROTECTION:
APPROPRIATE FOOTWEAR AND ANY ADDITIONAL SKIN PROTECTION MEASURES SHOULD BE SELECTED BASED ON THE TASK BEING PERFORMED AND THE RISKS INVOLVED AND SHOULD BE APPROVED BY A SPECIALIST BEFORE HANDLING THIS PRODUCT.

RESPIRATORY PROTECTION:

-----SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES -----

APPEARANCE:

PHYSICAL STATE: LIQUID.

COLOR: VARIOUS

ODOR: NOT AVAILABLE.

ODOR THRESHOLD: NOT AVAILABLE.

PH: 7

MELTING POINT: NOT AVAILABLE.

BOILING POINT: NOT AVAILABLE.

FLASH POINT:
CLOSED CUP: -29 DEG. C (-20.2 DEG. F) [PENSKY-MARTENS CLOSED CUP]

EVAPORATION RATE: 1.5 (BUTYL ACETATE = 1)

FLAMMABILITY (SOLID, GAS): NOT AVAILABLE.

LOWER AND UPPER EXPLOSIVE (FLAMMABLE) LIMITS:
LOWER: 0.9%
UPPER: 9.5%

VAPOR PRESSURE: 13.5 KPA (101 MM Hg) [AT 20 DEG. C]

VAPOR DENSITY: 1 [AIR = 1]

RELATIVE DENSITY: 0.84

SOLUBILITY: NOT AVAILABLE.

PARTITION COEFFICIENT N-OCTANOL/WATER: NOT AVAILABLE.

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE.

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

VISCOSITY:
KINEMATIC (40 DEG. C (104 DEG. F)): -0.01 CM2/S (-1 CST)

MOLECULAR WEIGHT: NOT APPLICABLE.

AEROSOL PRODUCT:
TYPE OF AEROSOL: SPRAY
HEAT OF COMBUSTION: 22.62 KJ/G

-----SECTION 10. STABILITY AND REACTIVITY -----

REACTIVITY:
NO SPECIFIC TEST DATA RELATED TO REACTIVITY AVAILABLE FOR THIS PRODUCT OR ITS INGREDIENTS.

CHEMICAL STABILITY: THE PRODUCT IS STABLE.

POSSIBILITY OF HAZARDOUS REACTIONS:
UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS REACTIONS WILL NOT OCCUR.

CONDITIONS TO AVOID:
AVOID ALL POSSIBLE SOURCES OF IGNITION (SPARK OR FLAME).

INCOMPATIBLE MATERIALS: NO SPECIFIC DATA.

HAZARDOUS DECOMPOSITION PRODUCTS:
UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS DECOMPOSITION PRODUCTS SHOULD NOT BE PRODUCED.

-----SECTION 11. TOXICOLOGICAL INFORMATION -----

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
BUTANE	LC50 INHALATION VAPOR	RAT	658000 MG/M3	4 HOURS
N-BUTYL ACETATE	LD50 DERMAL	RABBIT	>17600 MG/KG	
	LD50 ORAL	RAT	10768 MG/KG	

IRRITATION/CORROSION:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	SCORE	EXPOSURE	OBSERVATION
N-BUTYL ACETATE	EYES - MODERATE IRRITANT	RABBIT	100	MILLIGRAMS	
	SKIN - MODERATE IRRITANT	RABBIT	24 HOURS	500 MILLIGRAMS	

SENSITIZATION: NOT AVAILABLE.

MUTAGENICITY: NOT AVAILABLE.

CARCINOGENICITY: NOT AVAILABLE.

REPRODUCTIVE TOXICITY: NOT AVAILABLE.

TERATOGENICITY: NOT AVAILABLE.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):

NAME	CATEGORY	ROUTE OF EXPOSURE	TARGET ORGANS
LT. ALIPHATIC HYDROCARBON SOLVENT	CATEGORY 3	NOT APPLICABLE.	RESPIRATORY TRACT IRRITATION AND NARCOTIC EFFECTS
PROPANE	CATEGORY 3	NOT APPLICABLE.	RESPIRATORY TRACT IRRITATION AND NARCOTIC EFFECTS
BUTANE	CATEGORY 3	NOT APPLICABLE.	RESPIRATORY TRACT IRRITATION AND NARCOTIC EFFECTS
N-BUTYL ACETATE	CATEGORY 3	NOT APPLICABLE.	NARCOTIC EFFECTS
MINERAL SPIRITS 140-FLASH	CATEGORY 3	NOT APPLICABLE.	RESPIRATORY TRACT IRRITATION AND NARCOTIC EFFECTS

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE):

NAME	CATEGORY	ROUTE OF EXPOSURE	TARGET ORGANS
LT. ALIPHATIC HYDROCARBON SOLVENT	CATEGORY 2	NOT DETERMINED	NOT DETERMINED
PROPANE	CATEGORY 2	NOT DETERMINED	NOT DETERMINED
BUTANE	CATEGORY 2	NOT DETERMINED	NOT DETERMINED
MINERAL SPIRITS 140-FLASH	CATEGORY 2	NOT DETERMINED	NOT DETERMINED

ASPIRATION HAZARD:

NAME	RESULT
LT. ALIPHATIC HYDROCARBON SOLVENT	ASPIRATION HAZARD - CATEGORY 1
PROPANE	ASPIRATION HAZARD - CATEGORY 1
BUTANE	ASPIRATION HAZARD - CATEGORY 1
MINERAL SPIRITS 140-FLASH	ASPIRATION HAZARD - CATEGORY 1

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE: NOT AVAILABLE.

POTENTIAL ACUTE HEALTH EFFECTS:

EYE CONTACT: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

INHALATION:
CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION. MAY CAUSE DROWSINESS OR DIZZINESS. MAY CAUSE RESPIRATORY IRRITATION.

SKIN CONTACT: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

INGESTION:
CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

EYE CONTACT: NO SPECIFIC DATA.



INHALATION:

ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING:
RESPIRATORY TRACT IRRITATION
COUGHING
NAUSEA OR VOMITING
HEADACHE
DROWSINESS/FATIGUE
DIZZINESS/VERTIGO
UNCONSCIOUSNESS

SKIN CONTACT: NO SPECIFIC DATA.

INGESTION:
ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: NAUSEA OR VOMITING

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE:

SHORT TERM EXPOSURE:
POTENTIAL IMMEDIATE EFFECTS: NOT AVAILABLE.
POTENTIAL DELAYED EFFECTS: NOT AVAILABLE.

LONG TERM EXPOSURE:
POTENTIAL IMMEDIATE EFFECTS: NOT AVAILABLE.
POTENTIAL DELAYED EFFECTS: NOT AVAILABLE.

POTENTIAL CHRONIC HEALTH EFFECTS: NOT AVAILABLE.

GENERAL: MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

MUTAGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

TERATOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

DEVELOPMENTAL EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

FERTILITY EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

NUMERICAL MEASURES OF TOXICITY:
ACUTE TOXICITY ESTIMATES: NOT AVAILABLE.

-----SECTION 12. ECOLOGICAL INFORMATION -----

TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	EXPOSURE
LT. ALIPHATIC ACUTE LC50:	FISH - ONCORHYNCHUS	96 HOURS	
HYDROCARBON SOLVENT >100000 PPM	MYKISS		
FRESH WATER			

N-BUTYL ACETATE ACUTE LC50:	CRUSTACEANS -	48 HOURS
32 MG/L ARTEMIA SALINA		
MARINE WATER		

ACUTE LC50:	FISH - PIMEPHALES	96 HOURS
18000 (MICRO)G/L PROMELAS		
FRESH WATER		

PERSISTENCE AND DEGRADABILITY:

PRODUCT/INGREDIENT NAME	AQUATIC HALF-LIFE	PHOTOLYSIS	BIODEGRADABILITY
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N-BUTYL ACETATE	READILY		
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BIOACCUMULATIVE POTENTIAL:

PRODUCT/INGREDIENT NAME	LOGPOW	BCF	POTENTIAL
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LT. ALIPHATIC HYDROCARBON SOLVENT	10 TO 2500	HIGH	
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MOBILITY IN SOIL:

SOIL/WATER PARTITION COEFFICIENT (KOC): NOT AVAILABLE.

OTHER ADVERSE EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

-----SECTION 13. DISPOSAL CONSIDERATIONS -----

DISPOSAL METHODS:
THE GENERATION OF WASTE SHOULD BE AVOIDED OR MINIMIZED WHEREVER POSSIBLE. DISPOSAL OF THIS PRODUCT, SOLUTIONS AND ANY BY-PRODUCTS SHOULD AT ALL TIMES COMPLY WITH THE REQUIREMENTS OF ENVIRONMENTAL PROTECTION AND WASTE DISPOSAL LEGISLATION AND ANY REGIONAL LOCAL AUTHORITY REQUIREMENTS. DISPOSE OF SURPLUS AND NON-RECYCLABLE PRODUCTS VIA A LICENSED WASTE DISPOSAL CONTRACTOR. WASTE SHOULD NOT BE DISPOSED OF UNTREATED TO THE SEWER UNLESS FULLY COMPLIANT WITH THE REQUIREMENTS OF ALL AUTHORITIES WITH JURISDICTION. WASTE PACKAGING SHOULD BE RECYCLED. INCINERATION OR LANDFILL SHOULD ONLY BE CONSIDERED WHEN RECYCLING IS NOT FEASIBLE. THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY. EMPTY CONTAINERS OR LINERS MAY RETAIN SOME PRODUCT RESIDUES.

-----SECTION 14. TRANSPORT INFORMATION -----

DOT CLASSIFICATION	TDG CLASSIFICATION	MEXICO CLASSIFICATION
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UN NUMBER	UN1950	UN1950	UN1950
UN PROPER SHIPPING	AEROSOLS	AEROSOLS	AEROSOLS

NAME

TRANSPORT HAZARD CLASS(ES)	2.1	2.1	2.1	CLASS 2.1, FLAMMABLE GASES	CLASS 2.1, FLAMMABLE GASES
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PACKING GROUP

ENVIRONMENTAL HAZARDS	NO.	NO.
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ADDITIONAL INFORMATION	PRODUCT CLASSIFIED AS PER THE FOLLOWING SECTIONS OF THE TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: 2. 13-2.17 (CLASS 2).
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ERG NO.: 126	ERG NO.: 126	ERG NO.: 126
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IATA	IMDG
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UN NUMBER	UN1950	UN1950
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UN PROPER SHIPPING NAME	AEROSOLS, FLAMMABLE	AEROSOLS
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TRANSPORT HAZARD CLASS(ES)	2.1	2.1	CLASS 2.1, FLAMMABLE GASES	CLASS 2.1 - FLAMMABLE GASES
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PACKING GROUP

ENVIRONMENTAL HAZARDS	YES. THE ENVIRONMENTALLY HAZARDOUS SUBSTANCE MARK IS NOT REQUIRED.	NO.
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ADDITIONAL INFORMATION THE ENVIRONMENTALLY HAZARDOUS SUBSTANCE MARK MAY APPEAR IF REQUIRED BY OTHER TRANSPORTATION REGULATIONS. EMERGENCY SCHEDULES (EMS) F-D, S-U

SPECIAL PRECAUTIONS FOR USER:
MULTI-MODAL SHIPPING DESCRIPTIONS ARE PROVIDED FOR INFORMATIONAL PURPOSES AND DO NOT CONSIDER CONTAINER SIZES. THE PRESENCE OF A SHIPPING DESCRIPTION FOR A PARTICULAR MODE OF TRANSPORT (SEA, AIR, ETC.), DOES NOT INDICATE THAT THE PRODUCT IS PACKAGED SUITABLY FOR THAT MODE OF TRANSPORT. ALL PACKAGING MUST BE REVIEWED FOR SUITABILITY PRIOR TO SHIPMENT, AND COMPLIANCE WITH THE APPLICABLE REGULATIONS IS THE SOLE RESPONSIBILITY OF THE PERSON OFFERING THE PRODUCT FOR TRANSPORT. PEOPLE LOADING AND UNLOADING DANGEROUS GOODS MUST BE TRAINED ON ALL OF THE RISKS DERIVING FROM THE SUBSTANCES AND ON ALL ACTIONS IN CASE OF EMERGENCY SITUATIONS.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE: NOT AVAILABLE.

PROPER SHIPPING NAME: NOT AVAILABLE.

SHIP TYPE: NOT AVAILABLE.

POLLUTION CATEGORY: NOT AVAILABLE.

-----SECTION 15. REGULATORY INFORMATION -----

SARA 313:
SARA 313 (40 CFR 372.45) SUPPLIER NOTIFICATION CAN BE FOUND ON THE ENVIRONMENTAL DATA SHEET.

CALIFORNIA PROP. 65:

WARNING:
THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

-----SECTION 16. OTHER INFORMATION -----

HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.):
HEALTH 2
FLAMMABILITY 3
PHYSICAL HAZARDS 0

THE CUSTOMER IS RESPONSIBLE FOR DETERMINING THE PPE CODE FOR THIS MATERIAL.

CAUTION:
HMIS(R*) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS. ALTHOUGH HMIS(R*) RATINGS ARE NOT REQUIRED ON SDS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HMIS(R*) RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED HMIS(R*) PROGRAM. HMIS(R*) IS A REGISTERED MARK OF THE NATIONAL PAINT & COATINGS ASSOCIATION (NPCA). HMIS(R*) MATERIALS MAY BE PURCHASED EXCLUSIVELY FROM J. J. KELLER (800) 327-6868.

PROCEDURE USED TO DERIVE THE CLASSIFICATION:

CLASSIFICATION	JUSTIFICATION
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FLAMMABLE AEROSOLS - CATEGORY 1 DATA	ON BASIS OF TEST
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GASES UNDER PRESSURE - COMPRESSED GAS	CALCULATION METHOD
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SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (RESPIRATORY TRACT IRRITATION) - CATEGORY 3 CALCULATION METHOD

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (NARCOTIC EFFECTS) - CATEGORY 3 CALCULATION METHOD

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - CATEGORY 2 CALCULATION METHOD

ASPIRATION HAZARD - CATEGORY 1 CALCULATION METHOD

HISTORY:

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VERSION: 1

KEY TO ABBREVIATIONS:

ATE: ACUTE TOXICITY ESTIMATE

BCF: BIOCONCENTRATION FACTOR

GHS: GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELING OF CHEMICALS

IATA: INTERNATIONAL AIR TRANSPORT ASSOCIATION

IBC: INTERMEDIATE BULK CONTAINER

IMDG: INTERNATIONAL MARITIME DANGEROUS GOODS

LOGPOW: LOGARITHM OF THE OCTANOL/WATER PARTITION COEFFICIENT

MARPOL:
INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS, 1973
AS MODIFIED BY THE PROTOCOL OF 1978. ("MARPOL" = MARINE POLLUTION)

UN: UNITED NATIONS

NOTICE TO READER:
IT IS RECOMMENDED THAT EACH CUSTOMER OR RECIPIENT OF THIS SAFETY DATA SHEET (SDS) STUDY IT CAREFULLY AND CONSULT RESOURCES, AS NECESSARY OR APPROPRIATE, TO BECOME AWARE OF AND UNDERSTAND THE DATA CONTAINED IN THIS SDS AND ANY HAZARDS ASSOCIATED WITH THE PRODUCT. THIS INFORMATION IS

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