



Common Name: MOTOR MEDIC THRUST STARTING FLUID

Manufacturer: RSC CHEMICAL SOLUTIONS

SDS Revision Date: 11/3/2015

SDS Format: GHS-US

Item Number(s): 1MRC7

Manufacturer Model Number(s):

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RSC CHEMICAL SOLUTIONS(R*)

SAFETY DATA SHEET

1. IDENTIFICATION



PRODUCT IDENTIFIER: MOTOR MEDIC THRUST STARTING FLUID

OTHER MEANS OF IDENTIFICATION:

SDS NUMBER: M3815

PART NO.: M3815

TARIFF CODE: 2909.11.0000

RECOMMENDED USE: STARTING FLUID

RECOMMENDED RESTRICTIONS: NONE KNOWN.

MANUFACTURER/IMPORTER/SUPPLIER/DISTRIBUTOR INFORMATION:

MANUFACTURER:

COMPANY NAME: RSC CHEMICAL SOLUTIONS

ADDRESS:
600 RADIATOR ROAD
INDIAN TRAIL, NC 28079
UNITED STATES

TELEPHONE:
CUSTOMER SERVICE: (704) 821-7643
TECHNICAL: (704) 684-1811

WEBSITE: WWW.RSCBRANDS.COM

E-MAIL: SDS@RSCBRANDS.COM

EMERGENCY PHONE NUMBER:

EMERGENCY TELEPHONE: (303) 623-5716

EMERGENCY CONTACT:
RMPDC: (877-740-5015)

2. HAZARD(S) IDENTIFICATION



PHYSICAL HAZARDS:
FLAMMABLE AEROSOLS: CATEGORY 1

HEALTH HAZARDS:
ACUTE TOXICITY, ORAL: CATEGORY 4

SKIN CORROSION/IRRITATION: CATEGORY 2

SERIOUS EYE DAMAGE/EYE IRRITATION: CATEGORY 2B

CARCINOGENICITY: CATEGORY 1B

SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE:
CATEGORY 3 NARCOTIC EFFECTS

SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE: CATEGORY 2

ENVIRONMENTAL HAZARDS:
HAZARDOUS TO THE AQUATIC ENVIRONMENT, ACUTE HAZARD: CATEGORY 1
HAZARDOUS TO THE AQUATIC ENVIRONMENT, LONG-TERM HAZARD: CATEGORY 1

OSHA DEFINED HAZARDS: NOT CLASSIFIED.

LABEL ELEMENTS:
FLAME
HEALTH HAZARD
EXCLAMATION MARK
ENVIRONMENT

SIGNAL WORD: DANGER

HAZARD STATEMENT:
EXTREMELY FLAMMABLE AEROSOL. HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION.
CAUSES EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. MAY CAUSE CANCER.
VERY TOXIC TO AQUATIC LIFE. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING
EFFECTS.

PRECAUTIONARY STATEMENT:

PREVENTION:
OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. DO NOT HANDLE UNTIL ALL SAFETY
PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. KEEP AWAY FROM HEAT/SPARKS/OPEN
FLAMES/HOT SURFACES. - NO SMOKING. DO NOT SPRAY ON AN OPEN FLAME OR OTHER
IGNITION SOURCE.

PRESSURIZED CONTAINER:
DO NOT PIERCE OR BURN, EVEN AFTER USE. AVOID BREATHING MIST OR VAPOR. WASH
THOROUGHLY AFTER HANDLING. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS
PRODUCT. USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. AVOID RELEASE TO
THE ENVIRONMENT. WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE
PROTECTION/FACE PROTECTION.

RESPONSE:

IF SWALLOWED: CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL.

IF ON SKIN: WASH WITH PLENTY OF WATER.

IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

IF IN EYES:

RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

IF EXPOSED OR CONCERNED:

GET MEDICAL ADVICE/ATTENTION. CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL. RINSE MOUTH.

IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION.

IF EYE IRRITATION PERSISTS:

GET MEDICAL ADVICE/ATTENTION. TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. COLLECT SPILLAGE.

STORAGE:

STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. STORE LOCKED UP. PROTECT FROM SUNLIGHT. DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C/122 DEG. F.

DISPOSAL:

DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

HAZARD(S) NOT OTHERWISE CLASSIFIED (HNOC): NONE KNOWN.

SUPPLEMENTAL INFORMATION:

81.58% OF THE MIXTURE CONSISTS OF COMPONENT(S) OF UNKNOWN ACUTE ORAL TOXICITY.

26.34% OF THE MIXTURE CONSISTS OF COMPONENT(S) OF UNKNOWN ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT.

26.34% OF THE MIXTURE CONSISTS OF COMPONENT(S) OF UNKNOWN LONG-TERM HAZARDS TO THE AQUATIC ENVIRONMENT.

3. COMPOSITION/INFORMATION ON INGREDIENTS



MIXTURES:

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS NUMBER	%
HEPTANE		142-82-5	70 - <80
ETHANE, 1,1'-OXYBIS-		60-29-7	10 - <20
CARBON DIOXIDE		124-38-9	5 - <10
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC		64742-53-6	<1
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM)		64742-52-5	<1

*DESIGNATES THAT A SPECIFIC CHEMICAL IDENTITY AND/OR PERCENTAGE OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

4. FIRST-AID MEASURES



INHALATION:

REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.

SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING. WASH WITH PLENTY OF SOAP AND WATER.

IF SKIN IRRITATION OCCURS:
GET MEDICAL ADVICE/ATTENTION. WASH CONTAMINATED CLOTHING BEFORE REUSE.

EYE CONTACT:
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

INGESTION:
RINSE MOUTH. IF VOMITING OCCURS, KEEP HEAD LOW SO THAT STOMACH CONTENT DOESN'T GET INTO THE LUNGS. GET MEDICAL ADVICE/ATTENTION IF YOU FEEL UNWELL.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:
MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. IRRITATION OF EYES. EXPOSED INDIVIDUALS MAY EXPERIENCE EYE TEARING, REDNESS, AND DISCOMFORT. SKIN IRRITATION. MAY CAUSE REDNESS AND PAIN.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
PROVIDE GENERAL SUPPORTIVE MEASURES AND TREAT SYMPTOMATICALLY. KEEP VICTIM WARM. KEEP VICTIM UNDER OBSERVATION. SYMPTOMS MAY BE DELAYED.

GENERAL INFORMATION:
IF EXPOSED OR CONCERNED:
GET MEDICAL ADVICE/ATTENTION. ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF THE MATERIAL(S) INVOLVED, AND TAKE PRECAUTIONS TO PROTECT THEMSELVES. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:
POWDER. ALCOHOL RESISTANT FOAM. CARBON DIOXIDE (CO2).

UNSUITABLE EXTINGUISHING MEDIA:
DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS WILL SPREAD THE FIRE.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:
CONTENTS UNDER PRESSURE. PRESSURIZED CONTAINER MAY EXPLODE WHEN EXPOSED TO HEAT OR FLAME. DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:
FIREFIGHTERS MUST USE STANDARD PROTECTIVE EQUIPMENT INCLUDING FLAME RETARDANT COAT, HELMET WITH FACE SHIELD, GLOVES, RUBBER BOOTS, AND IN ENCLOSED SPACES, SCBA.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS:
MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK. CONTAINERS SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP. FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES, IF POSSIBLE. IF NOT, WITHDRAW AND LET FIRE BURN OUT.

SPECIFIC METHODS:
USE STANDARD FIREFIGHTING PROCEDURES AND CONSIDER THE HAZARDS OF OTHER INVOLVED MATERIALS. MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK. IN THE EVENT OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES.

GENERAL FIRE HAZARDS: EXTREMELY FLAMMABLE AEROSOL.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND CLOTHING DURING CLEAN-UP. AVOID BREATHING MIST OR VAPOR. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. VENTILATE CLOSED SPACES BEFORE ENTERING THEM. LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED. FOR PERSONAL PROTECTION, SEE SECTION 8 OF THE SDS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:
REFER TO ATTACHED SAFETY DATA SHEETS AND/OR INSTRUCTIONS FOR USE. KEEP COMBUSTIBLES (WOOD, PAPER, OIL, ETC.) AWAY FROM SPILLED MATERIAL. THIS MATERIAL IS CLASSIFIED AS A WATER POLLUTANT UNDER THE CLEAN WATER ACT AND

SHOULD BE PREVENTED FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS WHICH LEAD TO WATERWAYS. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. MOVE THE CYLINDER TO A SAFE AND OPEN AREA IF THE LEAK IS IRREPARABLE. COVER WITH PLASTIC SHEET TO PREVENT SPREADING. ABSORB IN VERMICULITE, DRY SAND OR EARTH AND PLACE INTO CONTAINERS. FOLLOWING PRODUCT RECOVERY, FLUSH AREA WITH WATER.

SMALL SPILLS:

WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION. FOR WASTE DISPOSAL, SEE SECTION 13 OF THE SDS.

ENVIRONMENTAL PRECAUTIONS:

AVOID RELEASE TO THE ENVIRONMENT. PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. AVOID DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. INFORM APPROPRIATE MANAGERIAL OR SUPERVISORY PERSONNEL OF ALL ENVIRONMENTAL RELEASES.

7. HANDLING AND STORAGE



PRECAUTIONS FOR SAFE HANDLING:

OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

PRESSURIZED CONTAINER:

DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT USE IF SPRAY BUTTON IS MISSING OR DEFECTIVE. DO NOT SPRAY ON A NAKED FLAME OR ANY OTHER INCANDESCENT MATERIAL. DO NOT SMOKE WHILE USING OR UNTIL SPRAYED SURFACE IS THOROUGHLY DRY. DO NOT CUT, WELD, SOLDER, DRILL, GRIND, OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. ALL EQUIPMENT USED WHEN HANDLING THE PRODUCT MUST BE GROUNDED. DO NOT RE-USE EMPTY CONTAINERS. AVOID BREATHING MIST OR VAPOR. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID PROLONGED EXPOSURE. DO NOT TASTE OR SWALLOW. WHEN USING, DO NOT EAT, DRINK OR SMOKE. SHOULD BE HANDLED IN CLOSED SYSTEMS, IF POSSIBLE. USE ONLY IN WELL-VENTILATED AREAS. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. WASH HANDS THOROUGHLY AFTER HANDLING. AVOID RELEASE TO THE ENVIRONMENT. OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

LEVEL 3 AEROSOL.

STORE LOCKED UP. PRESSURIZED CONTAINER. PROTECT FROM SUNLIGHT AND DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 DEG. C/122 DEG. F. DO NOT PUNCTURE, INCINERATE OR CRUSH. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. THIS MATERIAL CAN ACCUMULATE STATIC CHARGE WHICH MAY CAUSE SPARK AND BECOME AN IGNITION SOURCE. KEEP OUT OF THE REACH OF CHILDREN. STORE AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10 OF THE SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



OCCUPATIONAL EXPOSURE LIMITS:

US. OSHA TABLE Z-1 LIMITS FOR AIR CONTAMINANTS (29 CFR 1910.1000):

COMPONENTS	TYPE	VALUE	FORM
CARBON DIOXIDE (CAS 124-38-9)	PEL	9000 MG/M3 5000 PPM	
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC (CAS 64742-53-6)	PEL	5 MG/M3 2000 MG/M3 500 PPM	MIST.
ETHANE, 1,1'-OXYBIS- (CAS 60-29-7)	PEL	1200 MG/M3 400 PPM	
HEPTANE (CAS 142-82-5)	PEL	2000 MG/M3 500 PPM	
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM)	PEL	5 MG/M3 2000 MG/M3 500 PPM	MIST.

(CAS 64742-52-5)

US. ACGIH THRESHOLD LIMIT VALUES:

COMPONENTS	TYPE	VALUE	FORM
CARBON DIOXIDE (CAS 124-38-9)	STEL	30000 PPM	
	TWA	5000 PPM	
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC (CAS 64742-53-6)	TWA	5 MG/M3	INHALABLE FRACTION.
ETHANE, 1,1'-OXYBIS- (CAS 60-29-7)	STEL	500 PPM	
	TWA	400 PPM	
HEPTANE (CAS 142-82-5)	STEL	500 PPM	
	TWA	400 PPM	
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM) (CAS 64742-52-5)	TWA	5 MG/M3	INHALABLE FRACTION.

US. NIOSH: POCKET GUIDE TO CHEMICAL HAZARDS

COMPONENTS	TYPE	VALUE	FORM
CARBON DIOXIDE (CAS 124-38-9)	STEL	54000 MG/M3 30000 PPM	
	TWA	9000 MG/M3 5000 PPM	
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC (CAS 64742-53-6)	CEILING	1800 MG/M3	
	STEL	10 MG/M3	MIST.
HEPTANE (CAS 142-82-5)	CEILING	1800 MG/M3 440 PPM	
	TWA	350 MG/M3 85 PPM	
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM) (CAS 64742-52-5)	CEILING	1800 MG/M3	
	STEL	10 MG/M3	MIST.

BIOLOGICAL LIMIT VALUES:

NO BIOLOGICAL EXPOSURE LIMITS NOTED FOR THE INGREDIENT(S).

APPROPRIATE ENGINEERING CONTROLS:

GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER HOUR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS. IF APPLICABLE, USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. IF EXPOSURE LIMITS HAVE NOT BEEN ESTABLISHED, MAINTAIN AIRBORNE LEVELS TO AN ACCEPTABLE LEVEL. EYE WASH FACILITIES AND EMERGENCY SHOWER MUST BE AVAILABLE WHEN HANDLING THIS PRODUCT.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION:

CHEMICAL RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE AND FULL FACEPIECE.

SKIN PROTECTION:

HAND PROTECTION:

WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES. SUITABLE GLOVES CAN BE RECOMMENDED BY THE GLOVE SUPPLIER.

OTHER:

WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING. USE OF AN IMPERVIOUS APRON IS RECOMMENDED.

RESPIRATORY PROTECTION:
CHEMICAL RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE AND FULL FACEPIECE.

THERMAL HAZARDS:
WEAR APPROPRIATE THERMAL PROTECTIVE CLOTHING, WHEN NECESSARY.

GENERAL HYGIENE CONSIDERATIONS:
WHEN USING DO NOT SMOKE. KEEP AWAY FROM FOOD AND DRINK. ALWAYS OBSERVE GOOD PERSONAL HYGIENE MEASURES, SUCH AS WASHING AFTER HANDLING THE MATERIAL AND BEFORE EATING, DRINKING, AND/OR SMOKING. ROUTINELY WASH WORK CLOTHING AND PROTECTIVE EQUIPMENT TO REMOVE CONTAMINANTS.

9. PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE: LIQUID. CLEAR.

PHYSICAL STATE: LIQUID.

FORM: AEROSOL.

COLOR: COLORLESS

ODOR: ESTER-LIKE.

ODOR THRESHOLD: NOT AVAILABLE.

PH: NOT AVAILABLE.

MELTING POINT/FREEZING POINT: -189.94 DEG. F (-123.3 DEG. C) ESTIMATED

INITIAL BOILING POINT AND BOILING RANGE:
-109.3 DEG. F (-78.5 DEG. C) ESTIMATED

FLASH POINT: -1.0 DEG. F (-18.3 DEG. C) TAG CLOSED CUP

EVAPORATION RATE: NOT AVAILABLE.

FLAMMABILITY (SOLID, GAS): NOT APPLICABLE.

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:
FLAMMABILITY LIMIT - LOWER (%): 1.9% ESTIMATED
FLAMMABILITY LIMIT - UPPER (%): 36.5% ESTIMATED

EXPLOSIVE LIMIT - LOWER (%): NOT AVAILABLE.
EXPLOSIVE LIMIT - UPPER (%): NOT AVAILABLE.

VAPOR PRESSURE: 4083.55 HPA ESTIMATED

VAPOR DENSITY: NOT AVAILABLE.

RELATIVE DENSITY: NOT AVAILABLE.

SOLUBILITY(IES):
SOLUBILITY (WATER): PARTIAL SOLUBILITY

PARTITION COEFFICIENT (N-OCTANOL/WATER): NOT AVAILABLE.

AUTO-IGNITION TEMPERATURE: 320 DEG. F (160 DEG. C) ESTIMATED

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

VISCOSITY: NOT AVAILABLE.

OTHER INFORMATION:

DENSITY: 5.75 LBS/GAL

EXPLOSIVE PROPERTIES: NOT EXPLOSIVE.

FLAMMABILITY CLASS: FLAMMABLE IA ESTIMATED

HEAT OF COMBUSTION (NFPA 30B): 30.83 KJ/G ESTIMATED

OXIDIZING PROPERTIES: NOT OXIDIZING.

PERCENT VOLATILE: 18.42% ESTIMATED

SPECIFIC GRAVITY: 0.69

VOC (WEIGHT %): 93%

10. STABILITY AND REACTIVITY

REACTIVITY:

THE PRODUCT IS STABLE AND NON-REACTIVE UNDER NORMAL CONDITIONS OF USE, STORAGE AND TRANSPORT.

CHEMICAL STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS:

NO DANGEROUS REACTION KNOWN UNDER CONDITIONS OF NORMAL USE.

CONDITIONS TO AVOID:

AVOID TEMPERATURES EXCEEDING THE FLASH POINT. CONTACT WITH INCOMPATIBLE MATERIALS.

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS. ALUMINUM.

HAZARDOUS DECOMPOSITION PRODUCTS:

NO HAZARDOUS DECOMPOSITION PRODUCTS ARE KNOWN.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

INHALATION:

MAY CAUSE DROWSINESS AND DIZZINESS. HEADACHE. NAUSEA, VOMITING. PROLONGED INHALATION MAY BE HARMFUL.

SKIN CONTACT: CAUSES SKIN IRRITATION.

EYE CONTACT: CAUSES EYE IRRITATION.

INGESTION: HARMFUL IF SWALLOWED.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

HEADACHE. MAY CAUSE DROWSINESS AND DIZZINESS. NAUSEA, VOMITING. IRRITATION OF EYES. EXPOSED INDIVIDUALS MAY EXPERIENCE EYE TEARING, REDNESS, AND DISCOMFORT. SKIN IRRITATION. MAY CAUSE REDNESS AND PAIN.

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY: HARMFUL IF SWALLOWED. NARCOTIC EFFECTS.

COMPONENTS	SPECIES	TEST RESULTS
ETHANE, 1,1'-OXYBIS- (CAS 60-29-7):		
ACUTE:		
INHALATION:		
LC50	RAT	32000 PPM, 4 HOURS
ORAL:		
LD50	RAT	3230 - 3920 MG/KG
HEPTANE (CAS 142-82-5):		
ACUTE:		
INHALATION:		
LC50	RAT	103 MG/L, 4 HOURS
LD50	MOUSE	75 MG/L, 2 HOURS

* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

SKIN CORROSION/IRRITATION: CAUSES SKIN IRRITATION.

SERIOUS EYE DAMAGE/EYE IRRITATION: CAUSES EYE IRRITATION.

RESPIRATORY OR SKIN SENSITIZATION:

RESPIRATORY SENSITIZATION: NOT A RESPIRATORY SENSITIZER.

SKIN SENSITIZATION:

THIS PRODUCT IS NOT EXPECTED TO CAUSE SKIN SENSITIZATION.

GERM CELL MUTAGENICITY:

NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS PRESENT AT GREATER THAN 0.1% ARE MUTAGENIC OR GENOTOXIC.

CARCINOGENICITY: MAY CAUSE CANCER.

IARC MONOGRAPHS. OVERALL EVALUATION OF CARCINOGENICITY:

ETHANE, 1,1'-OXYBIS- (CAS 60-29-7):

3: NOT CLASSIFIABLE AS TO CARCINOGENICITY TO HUMANS.

OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050): NOT LISTED.

US. NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS:

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC (CAS 64742-53-6): KNOWN TO BE HUMAN CARCINOGEN.

HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM) (CAS 64742-52-5): KNOWN TO BE HUMAN CARCINOGEN.

REPRODUCTIVE TOXICITY:

THIS PRODUCT IS NOT EXPECTED TO CAUSE REPRODUCTIVE OR DEVELOPMENTAL EFFECTS.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

MAY CAUSE DROWSINESS AND DIZZINESS.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: NOT CLASSIFIED.

ASPIRATION HAZARD: NOT AN ASPIRATION HAZARD.

CHRONIC EFFECTS: PROLONGED INHALATION MAY BE HARMFUL.

12. ECOLOGICAL INFORMATION



ECOTOXICITY: VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

COMPONENTS

SPECIES

TEST RESULTS

ETHANE, 1,1'-OXYBIS- (CAS 60-29-7):

AQUATIC:

FISH	LC50	FATHEAD MINNOW (PIMEPHALES PROMELAS)	2560 MG/L, 96 HOURS
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HEPTANE (CAS 142-82-5):

AQUATIC:

FISH	LC50	MOZAMBIQUE TILAPIA (TILAPIA MOSSAMBICA)	375 MG/L, 96 HOURS
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* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

PERSISTENCE AND DEGRADABILITY:

NO DATA IS AVAILABLE ON THE DEGRADABILITY OF THIS PRODUCT.

BIOACCUMULATIVE POTENTIAL:

PARTITION COEFFICIENT N-OCTANOL / WATER (LOG KOW):

ETHANE, 1,1'-OXYBIS-: 0.89

HEPTANE: 4.66

MOBILITY IN SOIL: NO DATA AVAILABLE.

OTHER ADVERSE EFFECTS:

NO OTHER ADVERSE ENVIRONMENTAL EFFECTS (E.G. OZONE DEPLETION, PHOTOCHEMICAL OZONE CREATION POTENTIAL, ENDOCRINE DISRUPTION, GLOBAL WARMING POTENTIAL) ARE EXPECTED FROM THIS COMPONENT.

13. DISPOSAL CONSIDERATIONS



DISPOSAL INSTRUCTIONS:

COLLECT AND RECLAIM OR DISPOSE IN SEALED CONTAINERS AT LICENSED WASTE DISPOSAL SITE. CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE OR CRUSH. DO NOT ALLOW THIS MATERIAL TO DRAIN INTO SEWERS/WATER SUPPLIES. DO NOT CONTAMINATE PONDS, WATERWAYS OR DITCHES WITH CHEMICAL OR USED CONTAINER. DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

LOCAL DISPOSAL REGULATIONS:

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

HAZARDOUS WASTE CODE:

THE WASTE CODE SHOULD BE ASSIGNED IN DISCUSSION BETWEEN THE USER, THE PRODUCER AND THE WASTE DISPOSAL COMPANY.

WASTE FROM RESIDUES / UNUSED PRODUCTS:

DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS. EMPTY CONTAINERS OR LINERS MAY RETAIN SOME PRODUCT RESIDUES. THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE MANNER (SEE: DISPOSAL INSTRUCTIONS).

CONTAMINATED PACKAGING:

SINCE EMPTIED CONTAINERS MAY RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. EMPTY CONTAINERS SHOULD BE TAKEN TO AN APPROVED WASTE HANDLING SITE FOR RECYCLING OR DISPOSAL. DO NOT RE-USE EMPTY CONTAINERS.

14. TRANSPORT INFORMATION



DOT:

UN NUMBER: NOT AVAILABLE.

UN PROPER SHIPPING NAME: CONSUMER COMMODITY

TRANSPORT HAZARD CLASS(ES):

CLASS: ORM-D

SUBSIDIARY RISK:

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT: YES

SPECIAL PRECAUTIONS FOR USER:

READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

SPECIAL PROVISIONS: T75, TP5

PACKAGING EXCEPTIONS: 306

PACKAGING NON BULK: 304

PACKAGING BULK: 314, 315

IATA:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE (STARTING FLUID)

TRANSPORT HAZARD CLASS(ES):

CLASS: 2.1

SUBSIDIARY RISK:

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS: YES

ERG CODE: 9L

SPECIAL PRECAUTIONS FOR USER:
READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

OTHER INFORMATION:
PASSENGER AND CARGO AIRCRAFT: ALLOWED.
CARGO AIRCRAFT ONLY: ALLOWED.

IMDG:

UN NUMBER: UN1950

UN PROPER SHIPPING NAME: AEROSOLS (LIMITED QTY)

TRANSPORT HAZARD CLASS(ES):
CLASS: 2.1
SUBSIDIARY RISK:

PACKING GROUP: NOT APPLICABLE.

ENVIRONMENTAL HAZARDS:
MARINE POLLUTANT: YES

EMS: F-D, S-U

SPECIAL PRECAUTIONS FOR USER:
READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
NOT ESTABLISHED.

IATA; IMDG: CLASS 2.1, FLAMMABLE GASES

MARINE POLLUTANT: ENVIRONMENT

GENERAL INFORMATION:
IMDG REGULATED: MARINE POLLUTANT.
DOT REGULATED: MARINE POLLUTANT.

15. REGULATORY INFORMATION



US FEDERAL REGULATIONS:
THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

TSCA SECTION 12(B) EXPORT NOTIFICATION (40 CFR 707, SUBPT. D):
NOT REGULATED.

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4):
ETHANE, 1,1'-OXYBIS- (CAS 60-29-7): LISTED.
HEPTANE (CAS 142-82-5): LISTED.

SARA 304 EMERGENCY RELEASE NOTIFICATION: NOT REGULATED.

OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050): NOT LISTED.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):

HAZARD CATEGORIES:
IMMEDIATE HAZARD: YES
DELAYED HAZARD: YES
FIRE HAZARD: YES
PRESSURE HAZARD: NO
REACTIVITY HAZARD: NO

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE: NOT LISTED.

SARA 311/312 HAZARDOUS CHEMICAL: NO

SARA 313 (TRI REPORTING): NOT REGULATED.

OTHER FEDERAL REGULATIONS:

CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS) LIST:
NOT REGULATED.

CLEAN AIR ACT (CAA) SECTION 112(R) ACCIDENTAL RELEASE PREVENTION (40 CFR
68.130): ETHANE, 1,1'-OXYBIS- (CAS 60-29-7)

SAFE DRINKING WATER ACT (SDWA): NOT REGULATED.

DRUG ENFORCEMENT ADMINISTRATION (DEA). LIST 2, ESSENTIAL CHEMICALS (21 CFR
1310.02(B) AND 1310.04(F)(2) AND CHEMICAL CODE NUMBER:

ETHANE, 1,1'-OXYBIS- (CAS 60-29-7): 6584

DRUG ENFORCEMENT ADMINISTRATION (DEA). LIST 1 & 2 EXEMPT CHEMICAL MIXTURES
(21 CFR 1310.12(C)):

ETHANE, 1,1'-OXYBIS- (CAS 60-29-7): 35% WV

DEA EXEMPT CHEMICAL MIXTURES CODE NUMBER:

ETHANE, 1,1'-OXYBIS- (CAS 60-29-7): 6584

US STATE REGULATIONS:

US. CALIFORNIA CONTROLLED SUBSTANCES. CA DEPARTMENT OF JUSTICE (CALIFORNIA
HEALTH AND SAFETY CODE SECTION 11100): NOT LISTED.

US. CALIFORNIA. CANDIDATE CHEMICALS LIST. SAFER CONSUMER PRODUCTS
REGULATIONS (CAL. CODE REGS, TIT. 22, 69502.3, SUBD. (A)):
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC (CAS 64742-53-6)
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM) (CAS 64742-52-5)

US. MASSACHUSETTS RTK - SUBSTANCE LIST:

CARBON DIOXIDE (CAS 124-38-9)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC (CAS 64742-53-6)

ETHANE, 1,1'-OXYBIS- (CAS 60-29-7)

HEPTANE (CAS 142-82-5)

HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM) (CAS 64742-52-5)

US. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT:

CARBON DIOXIDE (CAS 124-38-9)

ETHANE, 1,1'-OXYBIS- (CAS 60-29-7)

HEPTANE (CAS 142-82-5)

US. PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW LAW:

CARBON DIOXIDE (CAS 124-38-9)

ETHANE, 1,1'-OXYBIS- (CAS 60-29-7)

HEPTANE (CAS 142-82-5)

US. RHODE ISLAND RTK: ETHANE, 1,1'-OXYBIS- (CAS 60-29-7)

US. CALIFORNIA PROPOSITION 65:

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986
(PROPOSITION 65):

THIS MATERIAL IS NOT KNOWN TO CONTAIN ANY CHEMICALS CURRENTLY LISTED AS
CARCINOGENS OR REPRODUCTIVE TOXINS.

INTERNATIONAL INVENTORIES:

COUNTRY(S) OR REGION	INVENTORY NAME	ON INVENTORY (YES/NO)*
AUSTRALIA	AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS)	YES
CANADA	DOMESTIC SUBSTANCES LIST (DSL)	YES
CANADA	NON-DOMESTIC SUBSTANCES LIST (NDSL)	NO
CHINA	INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA (IECSC)	YES
EUROPE	EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS)	YES
EUROPE	EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS)	NO

JAPAN	INVENTORY OF EXISTING AND NEW CHEMICAL SUBSTANCES (ENCS)	NO
KOREA	EXISTING CHEMICALS LIST (ECL)	YES
NEW ZEALAND	NEW ZEALAND INVENTORY	YES
PHILIPPINES	PHILIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES (PICCS)	YES
UNITED STATES & PUERTO RICO	TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY	YES

*A "YES" INDICATES THAT ALL COMPONENTS OF THIS PRODUCT COMPLY WITH THE INVENTORY REQUIREMENTS ADMINISTERED BY THE GOVERNING COUNTRY(S)

A "NO" INDICATES THAT ONE OR MORE COMPONENTS OF THE PRODUCT ARE NOT LISTED OR EXEMPT FROM LISTING ON THE INVENTORY ADMINISTERED BY THE GOVERNING COUNTRY(S).

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION



OR LAST REVISION

ISSUE DATE: 05-07-2015

REVISION DATE: 11-03-2015

VERSION #: 05

HMIS(R*) RATINGS:
 HEALTH 2*
 FLAMMABILITY 4
 PHYSICAL HAZARD 0

NFPA RATINGS:
 HEALTH 2
 FLAMMABILITY 4
 INSTABILITY 0

NFPA RATINGS:
 2
 4
 0

DISCLAIMER:
 THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT.

REVISION INFORMATION:
 PHYSICAL & CHEMICAL PROPERTIES: MULTIPLE PROPERTIES
 TRANSPORT INFORMATION: MATERIAL TRANSPORTATION INFORMATION

MATERIAL NAME: MOTOR MEDIC THRUST STARTING FLUID

SDS US