

MSDS Information Material Safety Data Sheet
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SECTION I - Material Identity

Item Name.....JOHNSENS 50% ENGINE STARTING
 FLUID, AEROSOL
 Part Number/Trade Name.....JOHNSENS 50% ENGINE STARTING
 FLUID, AEROSOL
 National Stock Number.....2910P6752
 CAGE Code.....8X792
 Part Number Indicator.....A
 MSDS Number.....196649
 HAZ Code.....D

SECTION II - Manufacturer's Information

Manufacturer Name.....TECHNICAL CHEMICAL COMPANY
 P.O. Box.....139
 City.....CLEBURNE
 State.....TX
 Country.....US
 Zip Code.....73033
 Emergency Phone.....800-424-9300 (CHEMTREC)

MSDS Preparer's Information

Date MSDS Prepared/Revised.....12MAR02
 Active Indicator.....Y

Alternate Vendors

SECTION III - Physical/Chemical Characteristics

Appearance/Odor.....COLORLESS TO PALE YELLOW LIQUID;
 PUNGENT, SWEET ODOR.
 Boiling Point.....-44 F
 Melting Point.....-76 F
 Vapor Density.....> 1.5
 Specific Gravity.....0.721
 Solubility in Water.....PARTIAL
 Container Pressure Code.....2
 Temperature Code.....4
 Product State Code.....L

SECTION IV - Fire and Explosion Hazard Data

Flash Point.....-76
 Flash Point Method.....UNK
 Lower Explosion Limit.....1.9
 Upper Explosion Limit.....9.5
 Extinguishing Media.....REGULAR FOAM OR CARBON DIOXIDE OR
 DRY CHEMICAL
 Special Fire Fighting Procedures.....WHEN FIGHTING FIRE OR INVOLVED
 WITH THIS PRODUCT, USE SELF CONTAINED BREATHING APPARATUS. PROTECTIVE
 CLOTHING SHOULD MINIMIZE EXPOSED SKIN AND INCLUDE GOGGLES, FULL FACED
 SHIELD IF POSSIBLE AND LINED RUBBER GLOVES.
 Unusual Fire/Explosion Hazards.....NR

SECTION V - Reactivity Data

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Stability.....YES
Stability Conditions to Avoid.....HEAT, SPARKS, FLAMES
Materials to Avoid.....STRONG OXIDIZING AGENTS
Hazardous Decomposition Products.....PRODUCTS TENDS TO FORM EXPLOSIVE PEROXIDES UNDER THE INFLUENCE OF AIR AND LIGHT AND ON LONG STANDING
Hazardous Polymerization.....NR
Polymerization Conditions to Avoid.....NR

SECTION VI - Health Hazard Data

Route of Entry: Skin.....YES
Route of Entry: Ingestion.....YES
Route of Entry: Inhalation.....YES
Health Hazards - Acute and Chronic.....[EYE] VAPOR CONTACT/ FROSTBITE IS PROBABLE [INGEST] NOT PROBABLE/FROSTBITE, NECROSIS BY LIP AND TONGUE [INHAL] VAPOR CONTACT / PRIMARY ROUTE. DROWSINESS OR ASPHIXIATION. [SKIN] VAPOR CONTACT / FROSTBITE.
Carcinogenity: NTP.....NO
Carcinogenity: IARC.....NO
Carcinogenity: OSHA.....NO
Explanation of Carcinogenity.....NONE
Symptoms of Overexposure.....SEE ABOVE
Medical Cond. Aggrevated by Exposure....NR
Emergency/First Aid Procedures.....[EYE] FLUSH WITH FRESH WATER FOR AT LEAST 20 MIN. WARM SKIN SLOWLY. FROSTBITE IS PROBABLE. CALL A PHYSICIAN. [INGEST] KEEP PATIENT CALM. GET TO A PHYSICIAN IMMEDIATELY - FROSTBITE IS PROABLE, WARM SKIN SLOWLY. [INHAL] REMOVE TO FRESH AIR. KEEP WARM AND AT REST. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. CHECK FOR PULSE GIVE CPR AS NEEDED. DO NOT GIVE STIMULANTS (ADREHALINE, EPINIPHRINE). KEEP PATIENT AT REST (24 HOURS). [SKIN] FLUSH WITH FRESH WATER FOR AT LEAST 20 MIN. FLUSH EXPOSED AREA WITH LUKEWARM WATER OR OTHER WISE WARM SKIN SLOWLY. CALL A PHYSICIAN.

SECTION VII - Precautions for safe Handling and Use

Steps if Material Released/Spilled.....FOLLOW ACCEPTED INDUSTRY PRACTICES AND OR COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL GOVERNMENT REGULATIONS. CHECK BEFORE HANDLING.
Neutralizing Agent.....NR
Waste Disposal Method.....ALWAYS DISPOSE OF MATERIALS IN ACCORDANCE W/ YOUR LOCAL, STATE, & FEDERAL REGULATIONS
Handling and Storage Precautions.....STORE AND USE WITH ADEQUATE VENTILATION. NEVER USE IN A CLOSE AND CONFINED SPACE. LOCAL EXHAUST MAY BE NECESSARY.
Other Precautions.....NR

SECTION VIII - Control Measures

Respiratory Protection.....NR
Ventilation.....MECANICAL GENERAL
Protective Gloves.....NR
Eye Protection.....SAFETY GOGGLES
Work Hygenic Practices.....WASH EXPOSED SKIN. LAUNDER CLOTHES.

SECTION IX - Label Data

Protect Eye.....YES
Protect Skin.....YES
Protect Respiratory.....YES
Chronic Indicator.....NO
Contact Code.....MODERATE
Fire Code.....UNKNOWN

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Health Code.....UNKNOWN
React Code.....UNKNOWN
Specific Hazard and Precaution.....NO TARGET ORGANS LISTED FOR
CHRONIC EXPOSURES

SECTION X - Transportation Data

Container Quantity.....10.7
Unit of Measure.....OZF

SECTION XI - Site Specific/Reporting Information

volatile Organic Compounds (P/G).....6
volatile Organic Compounds (G/L).....719.033

SECTION XII - Ingredients/Identity Information

Ingredient #.....01
Ingredient Name.....ETHYL ETHER
CAS Number.....60297
Proprietary.....NO
Percent.....60
Ingredient #.....02
Ingredient Name.....METHYL HEXANEES
CAS Number.....1003
Proprietary.....NO
Percent.....20
Ingredient #.....03
Ingredient Name.....PROPANE
CAS Number.....74986
Proprietary.....NO
Percent.....15
Ingredient #.....04
Ingredient Name.....HEPTANE
CAS Number.....142825
Proprietary.....NO
Percent.....15
OSHA PEL.....400 PPM
ACGIH TLV.....400 PPM
Ingredient #.....05
Ingredient Name.....CARBON DIOXIDE
CAS Number.....124389
Proprietary.....NO
Percent.....10
Ingredient #.....06
Ingredient Name.....ISO-BUTANE
CAS Number.....75285
Proprietary.....NO
Percent.....10
Ingredient #.....07
Ingredient Name.....DIMETHYL PENTANES
CAS Number.....1003
Proprietary.....NO
Percent.....5
Ingredient #.....08
Ingredient Name.....DIMETHYL CYCLOPENTANES
CAS Number.....1003
Proprietary.....NO
Percent.....3
Ingredient #.....09
Ingredient Name.....B200 BASE OIL
CAS Number.....64742525
Proprietary.....NO

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Percent.....5

NOTICE: For additional information, contact BIOENVIRONMENTAL

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