

# Class C Solutions Group

A business of MSC Industrial Supply Co.

## Safety Data Sheet

### Supply Co. - AIR BRAKE ANTI-FREEZE & CONDITIONER 05528, 05555

Document Nbr: 084824  
Class C Parts IDs 21408

CRC(R\*)

SAFETY DATA SHEET

#### -----1. IDENTIFICATION -----

PRODUCT IDENTIFIER: AIR BRAKE ANTI-FREEZE & CONDITIONER

OTHER MEANS OF IDENTIFICATION:

PRODUCT CODE: 05528, 05555

RECOMMENDED USE: AIR BRAKE ANTI-FREEZE

RECOMMENDED RESTRICTIONS: NONE KNOWN.

MANUFACTURER/IMPORTER/SUPPLIER/DISTRIBUTOR INFORMATION:

MANUFACTURED OR SOLD BY:

COMPANY NAME: CRC INDUSTRIES, INC.

ADDRESS:  
885 LOUIS DR.  
WARMINSTER, PA 18974 US

TELEPHONE:

GENERAL INFORMATION: 215-674-4300

TECHNICAL ASSISTANCE: 800-521-3168

CUSTOMER SERVICE: 800-272-4620

24-HOUR EMERGENCY (CHEMTREC):  
800-424-9300 (US)

703-527-3887 (INTERNATIONAL)

WEBSITE: WWW.CRCINDUSTRIES.COM

-----2. HAZARD(S) IDENTIFICATION -----

PHYSICAL HAZARDS:

FLAMMABLE LIQUIDS: CATEGORY 2

HEALTH HAZARDS:

ACUTE TOXICITY, ORAL: CATEGORY 3

ACUTE TOXICITY, DERMAL: CATEGORY 3

ACUTE TOXICITY, INHALATION: CATEGORY 3

REPRODUCTIVE TOXICITY: CATEGORY 2

SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE: CATEGORY 1

ENVIRONMENTAL HAZARDS: NOT CLASSIFIED.

OSHA DEFINED HAZARDS: NOT CLASSIFIED.

LABEL ELEMENTS:

FLAME

SKULLS AND CROSSBONES

HEALTH HAZARD

SIGNAL WORD: DANGER

HAZARD STATEMENT:

HIGHLY FLAMMABLE LIQUID AND VAPOR. TOXIC IF SWALLOWED. TOXIC IN CONTACT WITH SKIN. TOXIC IF INHALED. SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. CAUSES DAMAGE TO ORGANS (EYES, CENTRAL NERVOUS SYSTEM).

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. KEEP CONTAINER TIGHTLY CLOSED. GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT. USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING EQUIPMENT. USE ONLY NON-SPARKING TOOLS. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. USE ONLY WITH ADEQUATE VENTILATION; MAINTAIN VENTILATION DURING USE AND UNTIL ALL VAPORS ARE GONE. OPEN DOORS AND WINDOWS OR USE OTHER MEANS TO ENSURE A FRESH AIR SUPPLY DURING USE AND WHILE PRODUCT IS DRYING. IF YOU EXPERIENCE ANY SYMPTOMS LISTED ON THIS LABEL, INCREASE VENTILATION OR LEAVE THE AREA. DO NOT BREATHE MIST OR VAPOR. WASH THOROUGHLY AFTER HANDLING. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

RESPONSE:

IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/DOCTOR. RINSE MOUTH.

IF INHALED:

REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. CALL A POISON CENTER/DOCTOR.

IF ON SKIN (OR HAIR):

TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. WASH CONTAMINATED CLOTHING BEFORE REUSE.

IF EXPOSED OR CONCERNED: GET MEDICAL ATTENTION.

IN CASE OF FIRE:

DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS WILL SPREAD THE FIRE.

STORAGE:

STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. KEEP COOL. STORE LOCKED UP.

DISPOSAL:

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

HAZARD(S) NOT OTHERWISE CLASSIFIED (HNOC):

STATIC ACCUMULATING FLAMMABLE LIQUID CAN BECOME ELECTROSTATICALLY CHARGED EVEN IN BONDED AND GROUNDED EQUIPMENT. SPARKS MAY IGNITE LIQUID AND VAPOR. MAY CAUSE FLASH FIRE OR EXPLOSION.

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

MIXTURES:

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS NUMBER	%
METHANOL		67-56-1	90 - 100

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. OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. DO NOT USE MOUTH-TO-MOUTH METHOD IF VICTIM INHALED THE SUBSTANCE. INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF A POCKET MASK EQUIPPED WITH A ONE-WAY VALVE OR OTHER PROPER RESPIRATORY MEDICAL DEVICE. CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

SKIN CONTACT:

TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER.

GET MEDICAL ADVICE/ATTENTION IF YOU FEEL UNWELL. 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:

CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. RINSE MOUTH. DO NOT INDUCE VOMITING WITHOUT ADVICE FROM POISON CONTROL CENTER. IF VOMITING OCCURS, KEEP HEAD LOW SO THAT STOMACH CONTENT DOESN'T GET INTO THE LUNGS. DO NOT USE MOUTH-TO-MOUTH METHOD IF VICTIM INGESTED THE SUBSTANCE. INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF A POCKET MASK EQUIPPED WITH A ONE-WAY VALVE OR OTHER PROPER RESPIRATORY MEDICAL DEVICE.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

DIZZINESS. HEADACHE. NAUSEA, VOMITING. IRRITATION OF EYES AND MUCOUS MEMBRANES. UPPER RESPIRATORY TRACT IRRITATION. SKIN IRRITATION.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

PROVIDE GENERAL SUPPORTIVE MEASURES AND TREAT SYMPTOMATICALLY.

THERMAL BURNS:

FLUSH WITH WATER IMMEDIATELY. WHILE FLUSHING, REMOVE CLOTHES WHICH DO NOT ADHERE TO AFFECTED AREA. CALL AN AMBULANCE. CONTINUE FLUSHING DURING TRANSPORT TO HOSPITAL. KEEP VICTIM WARM. KEEP VICTIM UNDER OBSERVATION. SYMPTOMS MAY BE DELAYED.

GENERAL INFORMATION: TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.

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. WASH CONTAMINATED CLOTHING BEFORE REUSE.

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

SUITABLE EXTINGUISHING MEDIA:

ALCOHOL RESISTANT FOAM. WATER FOG. CARBON DIOXIDE (CO<sub>2</sub>). DRY CHEMICAL POWDER, CARBON DIOXIDE, SAND OR EARTH MAY BE USED FOR SMALL FIRES ONLY.

UNSUITABLE EXTINGUISHING MEDIA:

DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS WILL SPREAD THE FIRE.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS MAY TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. THIS PRODUCT IS A POOR CONDUCTOR OF ELECTRICITY AND CAN BECOME ELECTROSTATICALLY CHARGED. IF SUFFICIENT CHARGE IS ACCUMULATED, IGNITION OF FLAMMABLE MIXTURES CAN OCCUR. TO REDUCE POTENTIAL FOR STATIC DISCHARGE, USE PROPER BONDING AND GROUNDING

PROCEDURES. THIS LIQUID MAY ACCUMULATE STATIC ELECTRICITY WHEN FILLING PROPERLY GROUNDED CONTAINERS. STATIC ELECTRICITY ACCUMULATION MAY BE SIGNIFICANTLY INCREASED BY THE PRESENCE OF SMALL QUANTITIES OF WATER OR OTHER CONTAMINANTS. MATERIAL WILL FLOAT AND MAY IGNITE ON SURFACE OF WATER. DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING MUST BE WORN IN CASE OF FIRE.

FIRE-FIGHTING EQUIPMENT/INSTRUCTIONS:

IN CASE OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES. MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK.

GENERAL FIRE HAZARDS: HIGHLY FLAMMABLE LIQUID AND VAPOR.

#### -----6. ACCIDENTAL RELEASE MEASURES -----

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. KEEP OUT OF LOW AREAS. ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND CLOTHING DURING CLEAN-UP. DO NOT BREATHE MIST OR VAPOR. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. VENTILATE CLOSED SPACES BEFORE ENTERING THEM. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION. TRANSFER BY MECHANICAL MEANS SUCH AS VACUUM TRUCK TO A SALVAGE TANK OR OTHER SUITABLE CONTAINER FOR RECOVERY OR SAFE DISPOSAL. 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:

ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. USE ONLY NON-SPARKING TOOLS. KEEP COMBUSTIBLES (WOOD, PAPER, OIL, ETC.) AWAY FROM SPILLED MATERIAL. THIS PRODUCT IS MISCIBLE IN WATER.

LARGE SPILLS:

STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. DIKE THE SPILLED MATERIAL, WHERE THIS IS POSSIBLE. COVER WITH PLASTIC SHEET TO PREVENT SPREADING. USE A NON-COMBUSTIBLE MATERIAL LIKE VERMICULITE, SAND OR EARTH TO SOAK UP THE PRODUCT AND PLACE INTO A CONTAINER FOR LATER DISPOSAL. FOLLOWING PRODUCT RECOVERY, FLUSH AREA WITH WATER.

SMALL SPILLS:

ABSORB WITH EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL AND TRANSFER TO CONTAINERS FOR LATER DISPOSAL. CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION. NEVER RETURN SPILLS TO ORIGINAL CONTAINERS FOR RE-USE. FOR WASTE DISPOSAL, SEE SECTION 13 OF THE SDS. PREVENT ENTRY INTO WATERWAYS, SEWER, BASEMENTS OR CONFINED AREAS.

ENVIRONMENTAL PRECAUTIONS:

AVOID DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

-----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. DO NOT HANDLE, STORE OR OPEN NEAR AN OPEN FLAME, SOURCES OF HEAT OR SOURCES OF IGNITION. PROTECT MATERIAL FROM DIRECT SUNLIGHT. EXPLOSION-PROOF GENERAL AND LOCAL EXHAUST VENTILATION. MINIMIZE FIRE RISKS FROM FLAMMABLE AND COMBUSTIBLE MATERIALS (INCLUDING COMBUSTIBLE DUST AND STATIC ACCUMULATING LIQUIDS) OR DANGEROUS REACTIONS WITH INCOMPATIBLE MATERIALS. HANDLING OPERATIONS THAT CAN PROMOTE ACCUMULATION OF STATIC CHARGES INCLUDE BUT ARE NOT LIMITED TO: MIXING, FILTERING, PUMPING AT HIGH FLOW RATES, SPLASH FILLING, CREATING MISTS OR SPRAYS, TANK AND CONTAINER FILLING, TANK CLEANING, SAMPLING, GAUGING, SWITCH LOADING, VACUUM TRUCK OPERATIONS. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES. ALL EQUIPMENT USED WHEN HANDLING THE PRODUCT MUST BE GROUNDED. USE NON-SPARKING TOOLS AND EXPLOSION-PROOF EQUIPMENT. DO NOT BREATHE MIST OR VAPOR. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. DO NOT TASTE OR SWALLOW. WHEN USING, DO NOT EAT, DRINK OR SMOKE. PREGNANT OR BREASTFEEDING WOMEN MUST NOT HANDLE THIS PRODUCT. SHOULD BE HANDLED IN CLOSED SYSTEMS, IF POSSIBLE. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. WASH HANDS THOROUGHLY AFTER HANDLING. OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES. WASH CONTAMINATED CLOTHING BEFORE REUSE. FOR PRODUCT USAGE INSTRUCTIONS, PLEASE SEE THE PRODUCT LABEL.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. PREVENT ELECTROSTATIC CHARGE BUILD-UP BY USING COMMON BONDING AND GROUNDING TECHNIQUES. ELIMINATE SOURCES OF IGNITION. AVOID SPARK PROMOTERS. GROUND/BOND CONTAINER AND EQUIPMENT. THESE ALONE MAY BE INSUFFICIENT TO REMOVE STATIC ELECTRICITY. STORE IN A COOL, DRY PLACE OUT OF DIRECT SUNLIGHT. STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. KEEP IN AN AREA EQUIPPED WITH SPRINKLERS. 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
METHANOL (CAS 67-56-1)	PEL	260 MG/M3 200 PPM

US. ACGIH THRESHOLD LIMIT VALUES:

COMPONENTS	TYPE	VALUE
METHANOL (CAS 67-56-1)	STEL	250 PPM

TWA 200 PPM

US. NIOSH: POCKET GUIDE TO CHEMICAL HAZARDS

COMPONENTS	TYPE	VALUE
METHANOL (CAS 67-56-1)	STEL	325 MG/M3 250 PPM
	TWA	260 MG/M3 200 PPM

BIOLOGICAL LIMIT VALUES:

ACGIH BIOLOGICAL EXPOSURE INDICES:

COMPONENTS	VALUE	DETERMINANT	SPECIMEN	SAMPLING TIME
METHANOL (CAS 67-56-1)	15 MG/L	METHANOL	URINE	*

\* - FOR SAMPLING DETAILS, PLEASE SEE THE SOURCE DOCUMENT.

EXPOSURE GUIDELINES:

US - CALIFORNIA OELS: SKIN DESIGNATION

METHANOL (CAS 67-56-1): CAN BE ABSORBED THROUGH THE SKIN.

US - MINNESOTA HAZ SUBS: SKIN DESIGNATION APPLIES

METHANOL (CAS 67-56-1): SKIN DESIGNATION APPLIES.

US - TENNESSEE OELS: SKIN DESIGNATION

METHANOL (CAS 67-56-1): CAN BE ABSORBED THROUGH THE SKIN.

US ACGIH THRESHOLD LIMIT VALUES: SKIN DESIGNATION

METHANOL (CAS 67-56-1): CAN BE ABSORBED THROUGH THE SKIN.

US NIOSH POCKET GUIDE TO CHEMICAL HAZARDS: SKIN DESIGNATION

METHANOL (CAS 67-56-1): CAN BE ABSORBED THROUGH THE SKIN.

APPROPRIATE ENGINEERING CONTROLS:

EXPLOSION-PROOF GENERAL AND LOCAL EXHAUST VENTILATION. 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.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).

SKIN PROTECTION:

HAND PROTECTION:

WEAR PROTECTIVE GLOVES SUCH AS: NITRILE. RUBBER.

OTHER:

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

RESPIRATORY PROTECTION:

IF ENGINEERING CONTROLS ARE NOT FEASIBLE OR IF EXPOSURE EXCEEDS THE APPLICABLE EXPOSURE LIMITS, USE A NIOSH-APPROVED CARTRIDGE RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE. USE A SELF-CONTAINED BREATHING APPARATUS IN CONFINED SPACES AND FOR EMERGENCIES. AIR MONITORING IS NEEDED TO DETERMINE ACTUAL EMPLOYEE EXPOSURE LEVELS.

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

GENERAL HYGIENE CONSIDERATIONS:

WHEN USING, DO NOT EAT, DRINK OR SMOKE. 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:

PHYSICAL STATE: LIQUID.

FORM: LIQUID.

COLOR: COLORLESS.

ODOR: PUNGENT. ALCOHOLIC.

ODOR THRESHOLD: NOT AVAILABLE.

PH: NOT AVAILABLE.

MELTING POINT/FREEZING POINT: -144 DEG. F (-97.8 DEG. C) ESTIMATED

INITIAL BOILING POINT AND BOILING RANGE: 148.5 DEG. F (64.7 DEG. C) ESTIMATED

FLASH POINT: 54 DEG. F (12.2 DEG. C) TAG CLOSED CUP

EVAPORATION RATE: FAST.

FLAMMABILITY (SOLID, GAS): NOT AVAILABLE.

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:

FLAMMABILITY LIMIT - LOWER (%): 2.6% ESTIMATED

FLAMMABILITY LIMIT - UPPER (%): 36% ESTIMATED



VAPOR PRESSURE: 133.2 HPA ESTIMATED

VAPOR DENSITY: 1.1 (AIR = 1)

RELATIVE DENSITY: 0.79

SOLUBILITY (WATER): COMPLETELY SOLUBLE.

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

AUTO-IGNITION TEMPERATURE: 725 DEG. F (385 DEG. C) ESTIMATED

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

VISCOSITY (KINEMATIC): NOT AVAILABLE.

PERCENT VOLATILE: 99.9% ESTIMATED

#### -----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 HEAT, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. CONTACT WITH INCOMPATIBLE MATERIALS.

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES. FORMALDEHYDE.

#### -----11. TOXICOLOGICAL INFORMATION -----

##### INFORMATION ON LIKELY ROUTES OF EXPOSURE:

##### INGESTION:

TOXIC IF SWALLOWED. EVEN SMALL AMOUNTS (30-250 ML METHANOL) MAY BE FATAL. SYMPTOMS ARE STOMACH ACHE, NAUSEA, VOMITING, DULLNESS, VISUAL DISORDER AND BLINDNESS. INHALATION TOXIC IF INHALED.

SKIN CONTACT: TOXIC IN CONTACT WITH SKIN.

EYE CONTACT: DIRECT CONTACT WITH EYES MAY CAUSE TEMPORARY IRRITATION.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

DIZZINESS. HEADACHE. NAUSEA, VOMITING. IRRITATION OF EYES AND MUCOUS MEMBRANES.  
UPPER RESPIRATORY TRACT IRRITATION. SKIN IRRITATION.

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

TOXIC IF INHALED. TOXIC IN CONTACT WITH SKIN. TOXIC IF SWALLOWED.

PRODUCT SPECIES TEST RESULTS

AIR BRAKE ANTI-FREEZE & CONDITIONER

ACUTE:

DERMAL:

LD50	RABBIT	12816.9443 MG/KG ESTIMATED
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INHALATION:

LC50	RAT	64084.7188 PPM, 4 HOURS ESTIMATED
		83.981 MG/L, 4 HOURS ESTIMATED

ORAL:

LD50	HUMAN	50.0662 MG/KG ESTIMATED
	RAT	5627.0654 MG/KG ESTIMATED

LDL0	HUMAN	300.3971 MG/KG ESTIMATED
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\* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

SKIN CORROSION/IRRITATION:

PROLONGED SKIN CONTACT MAY CAUSE TEMPORARY IRRITATION.

SERIOUS EYE DAMAGE/EYE IRRITATION:

DIRECT CONTACT WITH EYES MAY CAUSE TEMPORARY IRRITATION.

RESPIRATORY SENSITIZATION: NOT AVAILABLE.

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:

THIS PRODUCT IS NOT CONSIDERED TO BE A CARCINOGEN BY IARC, ACGIH, NTP, OR OSHA.

REPRODUCTIVE TOXICITY: SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

CAUSES DAMAGE TO ORGANS: EYES. CENTRAL NERVOUS SYSTEM. EVEN SMALL AMOUNTS

(30-250 ML METHANOL) MAY BE FATAL. SYMPTOMS ARE STOMACH ACHE, NAUSEA, VOMITING, DULLNESS, VISUAL DISORDER AND BLINDNESS.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: NOT CLASSIFIED.

ASPIRATION HAZARD: MAY BE AN ASPIRATION HAZARD.

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

ECOTOXICITY:

THE PRODUCT IS NOT CLASSIFIED AS ENVIRONMENTALLY HAZARDOUS. HOWEVER, THIS DOES NOT EXCLUDE THE POSSIBILITY THAT LARGE OR FREQUENT SPILLS CAN HAVE A HARMFUL OR DAMAGING EFFECT ON THE ENVIRONMENT.

PRODUCT	SPECIES	TEST RESULTS
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AIR BRAKE ANTI-FREEZE & CONDITIONER

AQUATIC:

ACUTE:

CRUSTACEA	EC50	DAPHNIA	16121.3125 MG/L, 48 HOURS ESTIMATED
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FISH	LC50	FISH	22749.9609 MG/L, 96 HOURS ESTIMATED
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COMPONENTS	SPECIES	TEST RESULTS
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METHANOL (CAS 67-56-1)

AQUATIC:

FISH	LC50	RAINBOW TROUT, DONALDSON TROUT (ONCORHYNCHUS MYKISS)	18000 - 20000 MG/L, 96 HOURS
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ACUTE:

CRUSTACEA	EC50	WATER FLEA (DAPHNIA MAGNA)	>10000 MG/L, 48 HOURS
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FISH	LC50	RAINBOW TROUT, DONALDSON TROUT (ONCORHYNCHUS MYKISS)	18000 - 20000 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: NO DATA AVAILABLE.

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

METHANOL: -0.77

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 OF WASTE FROM RESIDUES / UNUSED PRODUCTS:

IF DISCARDED, THIS PRODUCT IS CONSIDERED A RCRA IGNITABLE WASTE, D001. COLLECT AND RECLAIM OR DISPOSE IN SEALED CONTAINERS AT LICENSED WASTE DISPOSAL SITE. DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

HAZARDOUS WASTE CODE:

D001: WASTE FLAMMABLE MATERIAL WITH A FLASH POINT <140 F

F003: WASTE NON-HALOGENATED SOLVENT - SPENT NON-HALOGENATED SOLVENT

US RCRA HAZARDOUS WASTE U LIST: REFERENCE

METHANOL (CAS 67-56-1): U154

CONTAMINATED PACKAGING:

EMPTY CONTAINERS SHOULD BE TAKEN TO AN APPROVED WASTE HANDLING SITE FOR RECYCLING OR DISPOSAL. SINCE EMPTIED CONTAINERS MAY RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

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

DOT:

UN NUMBER: UN1230

UN PROPER SHIPPING NAME: METHANOL

TRANSPORT HAZARD CLASS(ES):

CLASS: 3

SUBSIDIARY RISK:

LABEL(S): 3

PACKING GROUP: II

SPECIAL PRECAUTIONS FOR USER:

READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

SPECIAL PROVISIONS: IB2, T7, TP2

PACKAGING EXCEPTIONS: 150

PACKAGING NON BULK: 202

PACKAGING BULK: 242

IATA:

UN NUMBER: UN1230

UN PROPER SHIPPING NAME: METHANOL

TRANSPORT HAZARD CLASS(ES):

CLASS: 3

SUBSIDIARY RISK: 6.1

PACKING GROUP: II

ENVIRONMENTAL HAZARDS: NO.

ERG CODE: 3L

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: UN1230

UN PROPER SHIPPING NAME: METHANOL

TRANSPORT HAZARD CLASS(ES):

CLASS: 3

SUBSIDIARY RISK: 6.1

PACKING GROUP: II

ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT: NO.

EMS: F-E, S-D

SPECIAL PRECAUTIONS FOR USER:

READ SAFETY INSTRUCTIONS, SDS AND EMERGENCY PROCEDURES BEFORE HANDLING.

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

US FEDERAL REGULATIONS:

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

ALL COMPONENTS ARE ON THE U.S. EPA TSCA INVENTORY LIST.

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

SARA 304 EMERGENCY RELEASE NOTIFICATION: NOT REGULATED.

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

US EPCRA (SARA TITLE III) SECTION 313 - TOXIC CHEMICAL: LISTED SUBSTANCE  
METHANOL (CAS 67-56-1)

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4):  
METHANOL (CAS 67-56-1)

CERCLA HAZARDOUS SUBSTANCES: REPORTABLE QUANTITY  
METHANOL (CAS 67-56-1): 5000 LBS

SPIILLS OR RELEASES RESULTING IN THE LOSS OF ANY INGREDIENT AT OR ABOVE ITS RQ  
REQUIRE IMMEDIATE NOTIFICATION TO THE NATIONAL RESPONSE CENTER (800-424-8802)  
AND TO YOUR LOCAL EMERGENCY PLANNING COMMITTEE.

CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS) LIST:  
METHANOL (CAS 67-56-1)

CLEAN AIR ACT (CAA) SECTION 112(R) ACCIDENTAL RELEASE PREVENTION (40 CFR  
68.130): NOT REGULATED.

SAFE DRINKING WATER ACT (SDWA): NOT REGULATED.

FOOD AND DRUG ADMINISTRATION (FDA): NOT REGULATED.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):

SECTION 311/312 HAZARD CATEGORIES:

IMMEDIATE HAZARD: YES

DELAYED HAZARD: YES

FIRE HAZARD: YES

REACTIVITY HAZARD: NO

PRESSURE HAZARD: NO

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE: NO

US STATE REGULATIONS:

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

US. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT: METHANOL (CAS 67-56-1)

US. MASSACHUSETTS RTK - SUBSTANCE LIST: METHANOL (CAS 67-56-1)

US. PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW LAW: METHANOL (CAS 67-56-1)

US. RHODE ISLAND RTK: METHANOL (CAS 67-56-1)

US. CALIFORNIA PROPOSITION 65:

WARNING:

THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

US - CALIFORNIA PROPOSITION 65 - CRT: LISTED **DATE**/DEVELOPMENTAL TOXIN

METHANOL (CAS 67-56-1) LISTED: MARCH 16, 2012

VOLATILE ORGANIC COMPOUNDS (VOC) REGULATIONS:

EPA:

VOC CONTENT (40 CFR 51.100(S)): 100%

CONSUMER PRODUCTS (40 CFR 59, SUBPT. C): NOT REGULATED

STATE:

CONSUMER PRODUCTS: NOT REGULATED

VOC CONTENT (CA): 100%

VOC CONTENT (OTC): 100%

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 CHINA (IECSC)	NO
JAPAN	INVENTORY OF EXISTING AND NEW CHEMICAL SUBSTANCES (ENCS)	YES
KOREA	EXISTING CHEMICALS LIST (ECL)	YES
NEW ZEALAND	NEW ZEALAND INVENTORY	YES
PHILIPPINES	PHILIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES (PICCS)	YES

UNITED STATES TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY      YES  
& PUERTO RICO

\*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: 03-24-2015

PREPARED BY: ALLISON CHO

VERSION #: 01

FURTHER INFORMATION: CRC # 620B

HMIS(R\*) RATINGS:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA RATINGS:

HEALTH	2
FLAMMABILITY	3
INSTABILITY	0

NFPA RATINGS:

2  
3  
0

DISCLAIMER:

CRC CANNOT ANTICIPATE ALL CONDITIONS UNDER WHICH THIS INFORMATION AND ITS  
PRODUCT, OR THE PRODUCTS OF OTHER MANUFACTURERS IN COMBINATION WITH ITS  
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FOR HANDLING, STORAGE AND DISPOSAL OF THE PRODUCT, AND TO ASSUME LIABILITY FOR  
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PROFESSIONAL, OR CRC INDUSTRIES.

MATERIAL NAME: AIR BRAKE ANTI-FREEZE & CONDITIONER



SDS: US