Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: **Cold Flow™ Anti-Gel with Lubricity**

Product Number (s): **05625, 05632, 05655**

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-8963
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Dark amber liquid, petroleum odor

DANGER
Flammable. Harmful or Fatal if Swallowed. Vapor Harmful.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

EYE: May cause mild eye irritation. Symptoms include stinging, tearing and redness.

SKIN: Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of the skin, burns and other skin damage. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during normal use.

INHALATION: Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms include irritation of the nose, throat and airways and tightening of chest. Extended exposure may lead to central nervous system depression, including dizziness, drowsiness, weakness, fatigue, nausea, headache and unconsciousness.

INGESTION: Ingestion may cause gastrointestinal disturbance, including irritation, nausea, vomiting and diarrhea. The major health threat of ingestions occurs from the danger of aspiration of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia, severe lung damage and even death.

CHRONIC EFFECTS: Prolonged or repeated exposure to vapors may lead to central nervous system effects, and effects on memory. Components of this product have been shown to cause cancer in laboratory animals, but the relevance of this finding to humans is uncertain.

TARGET ORGANS: Central nervous system; possibly liver, kidney, testis, hearing

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Xylene	1330-20-7	45 - 55
Petroleum Naphtha	64742-94-5	15 - 25
Ethylbenzene	100-41-4	10 - 15
Tetramethylbenzene	527-53-7	5 - 10
Naphthalene	91-20-3	1.75

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do NOT induce vomiting. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Mouth can be rinsed to dissipate the taste.

Note to Physicians: Inhalation of high concentrations of this material may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

Section 5: Fire-Fighting Measures

Flammable Properties: In accordance with OSHA definitions, this product is a Class IC flammable liquid.

Flash Point:	81 F (TCC)	Upper Explosive Limit:	6.6
Autoignition Temperature:	> 900 F	Lower Explosive Limit:	1.0

Suitable Extinguishing Media: Use extinguishers rated for Class B fires, such as dry chemical, Halon, fire fighting foam or CO2.

Products of Combustion: Oxides of carbon

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Remove all sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Keep away from heat, sparks and open flame. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion. Provide adequate ventilation during use. Do not breathe vapors. Wash hands after use.

Storage Procedures: Store in a cool dry area out of direct sunlight. Store in a well ventilated area. Keep out of reach of children. Keep containers closed when not in use.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

	OSHA		ACGIH		OTHER		
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
Xylene	100	150 (v)	100	150	NE		ppm
Petroleum Naphtha	NE	NE	NE	NE	NE		
Ethylbenzene	100	125 (v)	100	125	NE		ppm
Tetramethylbenzene	NE	NE	NE	NE	NE		
Naphthalene	10	15(v)	10 (s)	15	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use NIOSH-approved self-contained positive pressure respirators in low circulation areas and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile, neoprene or PVC. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid
Color: Dark amber
Odor: Petroleum
Specific Gravity: 0.8823
Initial Boiling Point: > 250 F
Freezing Point: ND
Vapor Pressure: ~ 9 mmHg @ 68F
Vapor Density: > 1 (air = 1)
Evaporation Rate: < 1 (butyl acetate = 1)
Solubility: Negligible in water
pH: NA
Volatile Organic Compounds: wt %: 84.89 g/L: 749 lbs./gal: 6.24

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: temperature extremes, sources of ignition

Incompatible Materials: Strong oxidizers

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, various hydrocarbons

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

Component	Test	Result	Route	Species
Ethylbenzene	LD50	3500 mg/kg	Oral	Rat
Ethylbenzene	LC50	17.2 mg/L/4H	Inhalation	Rat
Naphthalene	LD50	490 mg/kg	Oral	Rat
Naphthalene	LD50	> 20 g/kg	Dermal	Rabbit

CHRONIC EFFECTS

Carcinogenicity:

	Component	Result
OSHA:	Naphthalene	Hazard Communication Carcinogen
	Ethylbenzene	Hazard Communication Carcinogen
IARC:	Naphthalene	2B – Possibly Carcinogenic
	Ethylbenzene	2B – Possibly Carcinogenic
NTP:	Naphthalene	Reasonably Anticipated to be a Carcinogen

Mutagenicity: No information available

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity:	Ethylbenzene -- 48 Hr EC50 Daphnia magna: 1.8-2.4 mg/L Naphthalene -- 48 Hr EC50 water flea: 2.16 mg/L
Persistence / Degradability:	No information available
Bioaccumulation / Accumulation:	No information available
Mobility in Environment:	No information available

Section 13: Disposal Considerations

Disposal: This product is a RCRA hazardous waste for the ignitability and toxicity characteristics: D001, D018 (17.8 mg/L Benzene). (See 40 CFR Part 261.20 – 261.33)

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground):	**05632**	Consumer Commodity, ORM-D
	05625	Flammable liquids, N.O.S. (contains xylene), 3, UN1993, PG III
	05655	Flammable liquids, N.O.S. (contains xylene), 3, UN1993, PG III, RQ

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

Toxic Substances Control Act (TSCA):
All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):
Reportable Quantities (RQ's) exist for the following ingredients: Xylene (100 lbs)
Ethylbenzene (1000 lbs)
Naphthalene (100 lbs)

Spills 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.

Superfund Amendments Reauthorization Act (SARA) Title III:
Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard	Yes
	Reactive Hazard	No
	Release of Pressure	No
	Acute Health Hazard	Yes
	Chronic Health Hazard	Yes

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting

requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
Xylene (52%), Ethylbenzene (13%), Naphthalene (1.75%)

Clean Air Act:
Section 112 Hazardous Air Pollutants (HAPs): Naphthalene, Ethylbenzene, Xylene

Consumer Product Safety Act General Conformity Certification: This product was evaluated by CRC Industries, Inc., and is certified to be in compliance with the provisions of the Consumer Product Safety Act, the Federal Hazardous Substances Act and the Poison Prevention Packaging Act, as applicable. This product was manufactured at the location listed in Section 1 of this MSDS. The date of manufacture is stamped on the product container. No testing is required to certify compliance with the above

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):
This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: Ethylbenzene (13%), Naphthalene (1.75%), Benzene (0.0018%)

State Right to Know:

New Jersey:	91-20-3, 800967-5341P, 800967-5548P, 1330-20-7, 100-41-4
Pennsylvania:	91-20-3, 95-63-6, 8052-41-3, 1330-20-7, 100-41-4
Massachusetts:	91-20-3, 8052-41-3, 1330-20-7, 100-41-4
Rhode Island :	91-20-3, 8052-41-3, 1330-20-7, 100-41-4

Additional Regulatory Information: This diesel fuel additive complies with the federal ultra-low sulfur content requirements for use in all diesel motor vehicles and non-road engines.

Section 16: Other Information

NFPA:	Health:	2	Flammability:	3	Reactivity:	0	
HMIS:	Health:	2	Flammability:	3	Reactivity:	0	PPE: B

Prepared By: Michelle Rudnick
CRC #: 627J
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Changes since last revision: Section 15: CPSA Certification added

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS:	Chemical Abstract Service	NA:	Not Applicable
ppm:	Parts per Million	ND:	Not Determined
TCC:	Tag Closed Cup	NE:	Not Established
PMCC:	Pensky-Martens Closed Cup	g/L:	grams per Liter
PPE:	Personal Protection Equipment	lbs./gal:	pounds per gallon
TWA:	Time Weighted Average	STEL:	Short Term Exposure Limit
OSHA:	Occupational Safety and Health Administration		
ACGIH	American Association of Governmental Industrial Hygienists		
NIOSH	National Institute of Occupational Safety & Health		