

# Material Safety Data Sheet

DYNA COOL K-2002

MSDS No. 5428

Date of Preparation: 6/19/2001

Revision: 8/5/02

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** DYNA COOL K-2002  
**Chemical Formula:** 5428  
**General Use:** CUTTING FLUID  
**Manufacturer:** DYNA TECH CHEMICAL CORPORATION

P.O. BOX 71

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## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
MINERAL OIL	PROPRIETARY	<20%
TRIETHANOLAMINE	102-71-6	<10%

### Trace Impurities:

Ingredient	OSHA PEL	ACGIH TLV	NIOSH REL
MINERAL OIL	5 MG/M3 (AS MIST)	5 MG/M3 (AS MIST)	
TRIETHANOLAMINE	5 MG/M3	5 MG/M3	

### Toxicity Data:

## Section 3 - Physical and Chemical Properties

**Physical State:** LIQUID

**Water Solubility:** EMULSIFIES

**Appearance and Odor:** CLEAR BLUE COLOR, CHARACTERISTIC

**Boiling Point:** 212 + DEG F

**Vapor Pressure:** N/A

**Vapor Density (Air=1):** N/A

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.020

**% Volatile:** N/A

**pH:** N/A

**Evaporation Rate:** N/A

## Section 4 - Fire-Fighting Measures

**Flash Point:** NONE

**Flash Point Method:** N/A

**LEL:** NONE

**UEL:** NONE

**Flammability Classification:** NONE

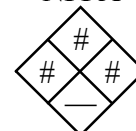
**Extinguishing Media:** WATER FOG, DRY CHEMICAL, FOAM, AND CO2

**Unusual Fire or Explosion Hazards:** NONE KNOWN

**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

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## Section 5 - Stability and Reactivity

**Stability:** DYNA COOL K-2002 is stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** STRONG OXIDIZING AGENTS

**Conditions to Avoid:** AVOID CONTACT WITH INCOMPATIBLE MATERIALS AND EXPOSURE TO EXTREME TEMPERATURES

**Hazardous Decomposition Products:** Thermal oxidative decomposition of DYNA COOL K-2002 can produce OXIDES OF CARBON, TRACES OF FORMALDEHYDE, AMMONIA AND OXIDES OF NITROGEN

## Section 6 - Health Hazard Information

### Potential Health Effects

**Primary Entry Routes:** INHALATION - SKIN CONTACT - EYE - INGESTION

#### Acute Effects

**Inhalation:** LOW VOLATILITY, IS NOT EXPECTED TO CAUSE IRRITATION WHILE USED UNDER NORMAL CONDITIONS, EXPOSURE TO HIGH MIST LEVELS IN POORLY VENTILATED AREAS MAY IRRITATE THE UPPER RESPIRATORY TRACT WITH SYMPTOMS OF ITCHING EYES AND NASAL PASSAGES.

**Eye:** MILD IRRITATION AND REDNESS MAY RESULT UPON DIRECT CONTACT OR WHEN EXPOSED TO HIGH MIST LEVELS IN POORLY VENTILATED AREAS.

**Skin:** SKIN CONTACT MAY RESULT IN SLIGHT TEMPORARY IRRITATION

**Ingestion:** THIS PRODUCT IS NOT EXPECTED TO CAUSE IRRITATION WHILE USED UNDER NORMAL CONDITIONS.

**Carcinogenicity:** IARC, NTP, and OSHA do not list DYNA COOL K-2002 as a carcinogen.

**Medical Conditions Aggravated by Long-Term Exposure:**

**Chronic Effects:**

### Emergency and First Aid Procedures

**Inhalation:** REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

**Eye Contact:** IMMEDIATELY FLUSH EYE WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN DURING THIS FLUSHING WITH WATER. CALL A PHYSICIAN IMMEDIATELY.

**Skin Contact:** FLUSH AREA WITH WATER WHILE REMOVING CONTAMINATED CLOTHES AND SHOES. FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING OR SHOES UNTIL CLEANED. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. DO NOT APPLY OILS OR OINTMENTS, UNLESS ORDERED BY PHYSICIAN.

**Ingestion:** IF CONSCIOUS, DRINK A QUART OF WATER. DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY. IF UNCONSCIOUS OR IF IN CONVULSIONS, TAKE IMMEDIATELY TO A HOSPITAL OR PHYSICIAN. NEVER INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS VICTIM. AFTER DILUTION WITH WATER, FRUIT JUICE MAY BE ADMINSTRATED TO ACCOMPLISH NEUTRALIZATION. SEVERAL GLASSES OF MILK OR SEVERAL OUNCES MILK OF MAGNESIA MAY BE GIVEN FOR THEIR SOOTHING EFFECT. GET MEDICAL ATTENTION.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

**Note to Physicians:** NONE

**Special Precautions/Procedures:** NONE

## Section 7 - Spill, Leak, and Disposal Procedures

**Spill /Leak Procedures:** EVACUATE UNPROTECTED PERSONNEL FROM AREA. MAINTAIN ADEQUATE VENTILATION. USE PROPER SAFETY EQUIPMENT. SWEEP UP MATERIAL INTO CONTAINERS AND DISPOSE OF PROPERLY. AVOID DIRECT DISCHARGE TO SEWERS AND SURFACE WATERS. NOTIFY AUTHORITIES IF ENTRY OCCURS.

#### Spills

**Containment:** For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

**Disposal Regulatory Requirements:** OBSERVE ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

**Container Cleaning and Disposal:** OBSERVE ALL LOCAL, STATE, AND FEDERAL REGULATIONS. DISPOSE OF AT APPROVED WASTE TREATMENT FACILITY. IF APPROVED NEUTRALIZE MATERIAL AND FLUSH TO SEWER. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOIDER, DRILL, GRIND, OR EXPOSE EMPTY CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION.

**Ecological Information:**

**EPA Regulations:**

This information may be subject to the provision reporting requirements of Section 313 of the Superfund Amendment and Reauthorization Act of 1986 (SARA). All sections - CERCLA, RCRA, and OSHA.

### Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:**

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:**

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

*Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

### Section 9 - Special Precautions and Comments

**Handling Precautions:** WEAR CHEMICAL SAFETY GOGGLES OR FACE SHIELD WITH SAFETY GOGGLES, AND PROTECTIVE CLOTHING. USE SELF-CONTAINED BREATHING APPARATUS IF NECESSARY. DO NOT USE IN POORLY VENTILATED OR CONFINED SPACES. WHEN MAKING SOLUTIONS, HEAT MAY BE GENERATED. ADD SLOWLY TO SURFACES OF SOLUTION WHILE STIRRING TO AVOID SPLATTERING. NEVER USE PRESSURE TO EMPTY CONTAINERS. EMPTY CONTAINERS MAY CONTAIN EXPLOSIVE VAPORS OR DANGEROUS RESIDUES. DO NOT CUT, PUNCTURE, OR WELD ON OR NEAR CONTAINER. ALL LABELLED HAZARDOUS PRECAUTIONS MUST BE OBSERVED. DO NOT REUSE EMPTY CONTAINER WITHOUT COMMERCIAL CLEANING OR RECONDITIONING.

**Storage Requirements:** STORE IN COOL, WELL-VENTILATED AREA AWAY FROM HEAT AND OUT OF DIRECT SUNLIGHT. DO NOT STORE OPEN, UNLABELLED, MISLABELLED, OR EMPTY CONTAINERS. KEEP CONTAINERS TIGHTLY CLOSED. STORE AWAY FROM INCOMPATIBLE MATERIALS. DO NOT EAT, DRINK, OR SMOKE IN WORK AREA.

#### DOT Transportation Data (49 CFR 172.101):

**Shipping Name:** NOT DOT HAZARDOUS AS PACKAGED

**Hazard Class:** NONE

**Packing Group:** III

**Label:** NONE

**Prepared By:** SLW

**Revision Notes:**

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