



Common Name: CUTTING FORCE GENERAL PURPOSE DEGREASER (DILUTION CONTROL CONCENTRATE)

Manufacturer: RAMSEY

MSDS Revision Date: 10/8/2003

Grainger Item Number(s): 3UT59

Manufacturer Model Number(s): CUTTING FORCE

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RAMSEY (R*)

MATERIAL SAFETY DATA SHEET

CUTTING FORCE GENERAL PURPOSE DEGREASER (DILUTION CONTROL CONCENTRATE)

MSDS NO: 6102

DATE PREPARED: 10/08/2003

DATE REVISED: 10/08/2003

1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME/USE:
CUTTING FORCE GENERAL PURPOSE DEGREASER (DILUTION CONTROL CONCENTRATE)

PRODUCT SYNONYMS:
PRACTICAL SOLUTIONS CUTTING FORCE GENERAL PURPOSE DEGREASER

PRODUCT CODE: 6102100

MANUFACTURER:
THE RAMSEY COMPANY
8310 16TH ST.
STURTEVANT, WI 53177-0902

RAMSEY TELEPHONE NUMBER: 800-421-2768
EMERGENCY TELEPHONE (24 HOURS): 800-228-5635

2. COMPOSITION/INFORMATION ON INGREDIENTS



INGREDIENT(S)	CAS#	% BY WEIGHT
WATER	7732-18-5	30-60
ETHANOL, 2-BUTOXY	111-76-2	10-30
SODIUM XYLENE SULFONATE	1300-72-7	1-5
ETHANOL, 2-AMINO	141-43-5	1-5
SODIUM HYDROXIDE	1310-73-2	1-5
LINEAR PRIMARY ALCOHOL ETHOXYLATE	34398-01-1	1-5
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE	64-02-8	1-5
SODIUM METASILICATE	6834-92-0	1-5
DYE	NA	< 0.1
INGREDIENT(S)	OSHA PEL/STEL	ACGIH TLV/STEL
WATER	NA	NA
ETHANOL, 2-BUTOXY	25 PPM 120 MG/M3/SKIN	25 PPM 121 MG/M3/SKIN
SODIUM XYLENE SULFONATE	NA	NA
ETHANOL, 2-AMINO	3 PPM 8 MG/M3/ 6 PPM 15 MG/M3	3 PPM 7.5 MG/M3/ 6 PPM 15 MG/M3
SODIUM HYDROXIDE	2 MG/M3/CEILING	2 MG/M3/CEILING
LINEAR PRIMARY ALCOHOL ETHOXYLATE	NA	NA
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE	NA	NA
SODIUM METASILICATE	NA	NA
DYE	NA	NA
NA - NOT AVAILABLE		

3. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:
CLEAR, BLUE LIQUID. SOLVENT ODOR. CAUSES EYE AND SKIN BURNS. HARMFUL IF SWALLOWED.

POTENTIAL HEALTH EFFECTS:
(SEE SECTION 11 FOR TOXICOLOGICAL INFORMATION)

PRIMARY ROUTE(S) OF EXPOSURE:
(X) EYE
(X) SKIN CONTACT
() SKIN ABSORPTION
(X) INHALATION
(X) INGESTION

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

EYES:
CAUSES EYE BURNS. SYMPTOMS MAY INCLUDE PAIN, TEARING, REDNESS, AND EYE INJURY.

SKIN:
CAUSES SKIN BURNS. SYMPTOMS MAY INCLUDE PAIN, REDNESS, SWELLING, SCARRING,

AND SKIN DAMAGE.

INGESTION:
HARMFUL IF SWALLOWED. MAY CAUSE MOUTH, THROAT AND STOMACH BURNS. SYMPTOMS MAY INCLUDE NAUSEA, VOMITING, DIARRHEA, AND SEVERE STOMACH PAIN. MAY ALSO CAUSE CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING HEADACHE, DIZZINESS AND WEAKNESS.

INHALATION:
HIGH CONCENTRATIONS OF VAPOR OR MIST MAY CAUSE NOSE, THROAT AND RESPIRATORY TRACT IRRITATION. SYMPTOMS MAY INCLUDE COUGHING, WHEEZING AND SHORTNESS OF BREATH. HIGH CONCENTRATIONS OF VAPOR OR MIST MAY ALSO CAUSE CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING HEADACHE, DIZZINESS AND NAUSEA.

EFFECTS OF CHRONIC EXPOSURE:
PROLONGED INHALATION OF HIGH CONCENTRATIONS OF CONCENTRATED ALKALINE MATERIALS ABOVE EXPOSURE LIMITS (SEE SECTION 2, COMPOSITION/INFORMATION ON INGREDIENTS) CAN CAUSE RESPIRATORY TRACT INJURY.

MEDICAL CONDITIONS AGGRAVATED:
MAY AGGRAVATE PRE-EXISTING EYE, SKIN AND RESPIRATORY CONDITIONS.

4. FIRST AID MEASURES



EYES:
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER WHILE HOLDING EYELIDS APART. AFTER INITIAL FLUSHING, REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. DO NOT PUT ANY MEDICATION IN THE VICTIM'S EYES UNLESS INSTRUCTED BY A PHYSICIAN. GET IMMEDIATE MEDICAL ATTENTION.

SKIN:
IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, THEN WASH WITH SOAP AND WATER. IMMEDIATELY REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. THOROUGHLY WASH (OR DISCARD) CLOTHING BEFORE REUSE. DESTROY CONTAMINATED SHOES.

INGESTION:
DO NOT INDUCE VOMITING. RINSE MOUTH OUT WITH WATER. DRINK LARGE QUANTITIES OF WATER. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

INHALATION:
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE RESPIRATION; IF BREATHING IS DIFFICULT, GIVE OXYGEN (BY TRAINED PERSONNEL ONLY). GET IMMEDIATE MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES



FLASH POINT AND METHOD: >93 DEG. C (200 DEG. F) TCC

FLAMMABLE LIMITS: NOT APPLICABLE.

AUTOIGNITION TEMPERATURE: NOT APPLICABLE.

EXTINGUISHING MEDIA:
USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

HAZARDOUS COMBUSTION PRODUCTS:
NORMAL PRODUCTS OF COMBUSTION (CARBON MONOXIDE AND CARBON DIOXIDE) AND SULFUR OXIDES.

FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

FIRE FIGHTING INSTRUCTIONS:
THIS PRODUCT IS NOT FLAMMABLE. AS IN ANY FIRE, MSHA/NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS (SCBA) AND FULL PROTECTIVE GEAR SHOULD BE WORN.

6. ACCIDENTAL RELEASE MEASURES



SEE SECTION 8, EXPOSURE CONTROLS/PERSONAL PROTECTION AND SECTION 3, HAZARD

IDENTIFICATION. FLOORS MAY BE SLIPPERY. USE CARE TO AVOID FALLING. VENTILATE SPILL AREA. CONTAIN AND ISOLATE SPILL. KEEP NON-ESSENTIAL PERSONNEL FROM ENTERING SPILL AREA. USE MOP AND ABSORBENT TO COLLECT MATERIAL FOR PROPER DISPOSAL. USE NON-METALLIC IMPLEMENTS FOR CLEANING AND COLLECTION. RINSE AREA WITH WATER.

7. HANDLING AND STORAGE



HANDLING:
FOLLOW LABEL USE DIRECTIONS. DO NOT MIX WITH OTHER CHEMICALS UNLESS INSTRUCTED BY LABEL DIRECTIONS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOR OR MIST. WASH THOROUGHLY AFTER HANDLING. IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WASH CLOTHING AND EQUIPMENT BEFORE REUSE. DESTROY CONTAMINATED SHOES. EMPTY CONTAINERS RETAIN RESIDUE AND MAY BE HAZARDOUS (SEE SECTION 14, TRANSPORT INFORMATION.).

STORAGE:
KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE AWAY FROM INCOMPATIBLE MATERIALS. (SEE SECTION 10, STABILITY AND REACTIVITY).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



ENGINEERING CONTROLS:
GOOD GENERAL ROOM VENTILATION IS EXPECTED TO BE ADEQUATE. IF USER OPERATIONS GENERATE VAPOR OR MIST, VENTILATION SHOULD BE USED TO KEEP AIRBORNE CONCENTRATIONS BELOW EXPOSURE LIMITS (SEE SECTION 2, COMPOSITION/INFORMATION ON INGREDIENTS).

PERSONAL PROTECTION:

EYE:
WHERE EYE CONTACT IS POSSIBLE, WEAR CHEMICAL SPLASH GOGGLES (ANSI Z87.1-APPROVED).

SKIN:
WHERE SKIN CONTACT IS POSSIBLE, CHEMICAL-RESISTANT GLOVES SHOULD BE WORN. WHEN ADDITIONAL SKIN CONTACT IS POSSIBLE, OTHER PROTECTIVE EQUIPMENT AND CLOTHING (E.G., FOOTWEAR) MAY BE NEEDED. ALL CONTAMINATED CLOTHING SHOULD BE REMOVED IMMEDIATELY AND CLEANED (OR DISCARDED) BEFORE REUSE.

RESPIRATORY:
NO RESPIRATORY PROTECTION IS REQUIRED IF GENERAL ROOM VENTILATION IS ADEQUATE AND AIRBORNE CONCENTRATIONS ARE KEPT BELOW EXPOSURE LIMITS. WHEN EXPOSURE LIMITS ARE EXCEEDED, USE APPROPRIATE RESPIRATORY PROTECTION (NIOSH/MSHA) TO PREVENT OVEREXPOSURE.

9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL STATE: LIQUID

ODOR: SOLVENT

APPEARANCE: CLEAR, BLUE

pH: 13.5

PERCENT VOLATILE BY WEIGHT: 87

VAPOR PRESSURE: NOT DETERMINED

VAPOR DENSITY: NOT DETERMINED

BOILING POINT: NOT DETERMINED

FREEZING/MELTING POINT: NOT DETERMINED

SOLUBILITY IN WATER: COMPLETE

EVAPORATION RATE: NOT DETERMINED

SPECIFIC GRAVITY: 1.05

VISCOSITY: WATER THIN

OCTANOL/WATER PARTITION COEFFICIENT: NOT DETERMINED

ODOR THRESHOLD: NOT DETERMINED

10. STABILITY AND REACTIVITY



STABILITY (CONDITIONS TO AVOID): STABLE.

POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION: NONE.

INCOMPATIBLE MATERIALS:
OXIDIZERS (E.G., BLEACH), STRONG ACIDS (E.G., HYDROCHLORIC ACID) AND
REACTIVE METALS (E.G., ALUMINUM).

11. TOXICOLOGICAL INFORMATION



ACUTE DATA:
THIS PRODUCT IS EXPECTED TO BE CORROSIVE TO THE EYES AND SKIN DUE IT ITS
HIGH ALKALINITY. BASED ON ACUTE TOXICITY TESTING OF A SIMILAR PRODUCT, THIS
PRODUCT MAY BE HARMFUL IF SWALLOWED. IT IS NOT CONSIDERED TO BE TOXIC BY
SKIN ABSORPTION OR INHALATION. THE FOLLOWING DATA ARE AVAILABLE FOR PRODUCT
INGREDIENTS:

PRODUCT/INGREDIENT	ORAL LD50 (RAT)	DERMAL LD50 (RABBIT)	INHALATION LC50 (RAT)
WATER			
ETHANOL, 2-BUTOXY	470 MG/KG	220 MG/KG	450 PPM (4-HR)
SODIUM XYLENE SULFONATE	650-4000 MG/KG	3000 MG/KG	NOT AVAILABLE
ETHANOL, 2-AMINO	1720 MG/KG	1018 MG/KG	NOT AVAILABLE
SODIUM HYDROXIDE	NOT AVAILABLE	1350 MG/KG	NOT AVAILABLE
LINEAR PRIMARY ALCOHOL ETHOXYLATE	700-1700 MG/KG	>2000 MG/KG	NOT AVAILABLE
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE	3030 MG/KG	>5000 MG/KG	NOT AVAILABLE
SODIUM METASILICATE	600-1153 MG/KG	NOT AVAILABLE	NOT AVAILABLE
DYE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

SENSITIZATION DATA: NO DATA AVAILABLE.

CHRONIC DATA:
REPEATED INHALATION OF HIGH CONCENTRATIONS OF ALKALINE MATERIALS HAS BEEN
REPORTED TO CAUSE IMPAIRMENT OF LUNG FUNCTION WITH SHORTNESS OF BREATH,
CHEMICAL PNEUMONIA AND PULMONARY EDEMA. PROLONGED OVEREXPOSURE TO HIGH
CONCENTRATIONS OF ETHANOL, 2-AMINO BY INHALATION AND INGESTION HAS CAUSED
LIVER AND KIDNEY EFFECTS IN LABORATORY ANIMALS. PROLONGED OVEREXPOSURE TO
HIGH CONCENTRATIONS OF ETHANOL, 2-BUTOXY BY SKIN ABSORPTION, INGESTION AND
INHALATION HAS CAUSED BLOOD, LIVER AND KIDNEY EFFECTS IN LABORATORY
ANIMALS.

REPRODUCTIVE/TERATOGENIC DATA: NO DATA AVAILABLE.

CARCINOGENIC/MUTAGENIC DATA:
NOT LISTED AS CARCINOGENIC BY NTP, IARC, OR ACGIH OR REGULATED AS A
CARCINOGEN BY OSHA.

SYNERGISTIC MATERIALS: NO DATA AVAILABLE.

12. ECOLOGICAL INFORMATION



NO DATA AVAILABLE.

13. DISPOSAL CONSIDERATIONS



DISPOSAL OF THIS MATERIAL SHOULD BE IN ACCORDANCE WITH LOCAL, STATE OR PROVINCIAL AND FEDERAL REGULATIONS. THE UNUSED PRODUCT, AS MANUFACTURED, IS A RCRA HAZARDOUS WASTE (CORROSIVE-D002) IN ACCORDANCE WITH 40 CFR 261. THE PRODUCT HAS NOT BEEN EVALUATED BY THE TOXICITY CHARACTERISTIC LEACHATE PROCEDURE (TCLP). ACCORDING TO RCRA, IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO ENSURE PROPER DISPOSAL.

14. TRANSPORT INFORMATION



DOT/TDG HAZARDOUS MATERIAL DESCRIPTION: CORROSIVE LIQUID, N.O.S.
DOT/TDG TECHNICAL NAME: SODIUM HYDROXIDE, ETHANOLAMINE
DOT/TDG HAZARD CLASS: 8
UN ID NO./P.I.N. NO.: 1760
DOT/TDG PACKING GROUP: III
NAERG: 154

15. REGULATORY INFORMATION



NOT MEANT TO BE ALL-INCLUSIVE - SELECTED REGULATIONS REPRESENTED.
UNITED STATES:
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):
311/312 HAZARD CATEGORIES:
UNDER 40 CFR 370.2, THIS PRODUCT MEETS THE FOLLOWING HAZARD CATEGORIES:
IMMEDIATE, DELAYED.
313 REPORTABLE INGREDIENTS:
ETHANOL, 2-BUTOXY IS 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 UNDER THE CHEMICAL CATEGORY GLYCOL ETHERS.
CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT):
CERCLA REGULATORY: NOT REPORTABLE UNDER CERCLA.
TSCA (TOXIC SUBSTANCE CONTROL ACT):
TSCA STATUS: THIS PRODUCT COMPLIES WITH ALL TSCA INVENTORY REQUIREMENTS.
USDA (U.S. DEPARTMENT OF AGRICULTURE):
THIS PRODUCT IS AUTHORIZED FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS.
CANADA:
WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):
CLASS E - CORROSIVE MATERIAL
CLASS D - DIVISION 2B, CHRONIC TOXIC EFFECTS.
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. OTHER INFORMATION



HMIS RATING:
HEALTH 3*
FLAMMABILITY 0
REACTIVITY 0
PERSONAL PROTECTION

NFPA CODES:
3
0
0

APPROVED BY: PRODUCT SAFETY & REGULATORY

MSDS STATUS:
REVISION #: 4

THIS MSDS REPLACES THE FEBRUARY 23, 2000 MSDS. ANY CHANGES IN INFORMATION
ARE AS FOLLOWS:
IN SECTION 1
APPROVED BY PRODUCT CODE DATE PREPARED

THE INFORMATION ON THIS DATA SHEET REPRESENTS OUR CURRENT DATA AND BEST
OPINION AS TO THE PROPER USE IN HANDLING OF THE PRODUCT UNDER NORMAL
FORESEEABLE CONDITIONS. ANY USE OF THIS PRODUCT WHICH IS NOT IN CONFORMANCE
WITH THIS DATA SHEET OR PRODUCT LABEL, OR WHICH INVOLVES USING THE PRODUCT
IN COMBINATION WITH ANY OTHER PRODUCT OR ANY OTHER PROCESS IS THE
RESPONSIBILITY OF THE USER.