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Common Name: GENERAL PURPOSE CLEANER CONCENTRATE (PRODUCT NO. 8, TWIST 'N FILL SYS. :

Manufacturer: 3M

MSDS Revision Date: 3/12/2008

Grainger Item Number(s): 2U682

Manufacturer Model Number(s):

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MATERIAL SAFETY DATA SHEET

3M(TM) GENERAL PURPOSE CLEANER CONCENTRATE (PRODUCT NO. 8, TWIST 'N FILL(TM) SYSTEM)

03/12/2008

3M

MATERIAL SAFETY DATA SHEET

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

3M(TM) GENERAL PURPOSE CLEANER CONCENTRATE (PRODUCT NO. 8, TWIST 'N
FILL(TM) SYSTEM)

MANUFACTURER: 3M

DIVISION: BUILDING & COMMERCIAL SERVICES DIVISION

ADDRESS:

3M CENTER
ST. PAUL, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 OR (651) 737-6501 (24 HOURS)

ISSUE DATE: 03/12/2008

SUPERCEDES DATE: 01/08/2008

DOCUMENT GROUP: 22-8391-9

PRODUCT USE:

INTENDED USE: HARD SURFACE CLEANER

SECTION 2: INGREDIENTS

INGREDIENT	C.A.S. NO.	% BY WT
WATER	7732-18-5	60 - 90
NON-IONIC SURFACTANTS (NJTSRN 04499600-6633)	TRADE SECRET	10 - 30
SURFACTANT (NJTSRN 04499600-6632)	TRADE SECRET	1 - 5
1-OCTYL-2-PYRROLIDINONE	2687-94-7	0.1 - 1
ETHANOLAMINE	141-43-5	0.1 - 1

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW:

SPECIFIC PHYSICAL FORM: LIQUID

ODOR, COLOR, GRADE: BRIGHT, CLEAR RED LIQUID WITH CITRUS FRAGRANCE

GENERAL PHYSICAL FORM: LIQUID

IMMEDIATE HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS:
MAY CAUSE ALLERGIC SKIN REACTION.

3.2 POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

MODERATE EYE IRRITATION:

SIGNS/SYMPTOMS MAY INCLUDE REDNESS, SWELLING, PAIN, TEARING, AND BLURRED OR HAZY VISION.

SKIN CONTACT:

MODERATE SKIN IRRITATION:

SIGNS/SYMPTOMS MAY INCLUDE LOCALIZED REDNESS, SWELLING, ITCHING, AND DRYNESS.

ALLERGIC SKIN REACTION (NON-PHOTO INDUCED):

SIGNS/SYMPTOMS MAY INCLUDE REDNESS, SWELLING, BLISTERING, AND ITCHING.

INHALATION:

RESPIRATORY TRACT IRRITATION:

SIGNS/SYMPTOMS MAY INCLUDE COUGH, SNEEZING, NASAL DISCHARGE, HEADACHE, HOARSENESS, AND NOSE AND THROAT PAIN.

INGESTION:

GASTROINTESTINAL IRRITATION:

SIGNS/SYMPTOMS MAY INCLUDE ABDOMINAL PAIN, STOMACH UPSET, NAUSEA, VOMITING AND DIARRHEA.

3.3 POTENTIAL ENVIRONMENTAL EFFECTS:

A 3M PRODUCT ENVIRONMENTAL DATA SHEET (PED) IS AVAILABLE.

A CONSERVATIVE ASSESSMENT INDICATES THIS PRODUCT PRESENTS A LOW ENVIRONMENTAL RISK. COMPONENTS RELEASED TO THE ENVIRONMENT THROUGH USE AND DISPOSAL ARE EXPECTED TO HAVE INSIGNIFICANT ENVIRONMENTAL IMPACTS.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES:

THE FOLLOWING FIRST AID RECOMMENDATIONS ARE BASED ON AN ASSUMPTION THAT APPROPRIATE PERSONAL AND INDUSTRIAL HYGIENE PRACTICES ARE FOLLOWED.

EYE CONTACT:

FLUSH EYES WITH LARGE AMOUNTS OF WATER. IF SIGNS/SYMPTOMS PERSIST, GET MEDICAL ATTENTION.

SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING AND SHOES. IMMEDIATELY FLUSH SKIN WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING AND CLEAN SHOES BEFORE REUSE.

INHALATION:

REMOVE PERSON TO FRESH AIR. IF SIGNS/SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.

IF SWALLOWED:

DO NOT INDUCE VOMITING UNLESS INSTRUCTED TO DO SO BY MEDICAL PERSONNEL. GIVE VICTIM TWO GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES:

FLASH POINT: 178 DEG. F
(TEST METHOD: TAGLIABUE CLOSED CUP)

OSHA FLAMMABILITY CLASSIFICATION: CLASS IIIA COMBUSTIBLE LIQUID

5.2 EXTINGUISHING MEDIA:

USE FIRE EXTINGUISHERS WITH CLASS B EXTINGUISHING AGENTS (E.G., DRY CHEMICAL, CARBON DIOXIDE).

5.3 PROTECTION OF FIRE FIGHTERS:

SPECIAL FIRE FIGHTING PROCEDURES:

WATER MAY NOT EFFECTIVELY EXTINGUISH FIRE; HOWEVER, IT SHOULD BE USED TO KEEP FIRE-EXPOSED CONTAINERS AND SURFACES COOL AND PREVENT EXPLOSIVE RUPTURE. WEAR FULL PROTECTIVE EQUIPMENT (BUNKER GEAR) AND A SELF-CONTAINED BREATHING APPARATUS (SCBA).

UNUSUAL FIRE AND EXPLOSION HAZARDS: NOT APPLICABLE.

NOTE:

SEE STABILITY AND REACTIVITY (SECTION 10) FOR HAZARDOUS COMBUSTION AND THERMAL DECOMPOSITION INFORMATION.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

REFER TO OTHER SECTIONS OF THIS MSDS FOR INFORMATION REGARDING PHYSICAL AND HEALTH HAZARDS, RESPIRATORY PROTECTION, VENTILATION, AND PERSONAL PROTECTIVE EQUIPMENT. CALL 3M-HELPS LINE (1-800-364-3577) FOR MORE INFORMATION ON HANDLING AND MANAGING THE SPILL. EVACUATE UNPROTECTED AND UNTRAINED PERSONNEL FROM HAZARD AREA. THE SPILL SHOULD BE CLEANED UP BY QUALIFIED PERSONNEL. VENTILATE THE AREA WITH FRESH AIR. CONTAIN SPILL. FOR LARGER SPILLS, COVER DRAINS AND BUILD DIKES TO PREVENT ENTRY INTO SEWER SYSTEMS OR BODIES OF WATER. COVER SPILL AREA WITH A FIRE-EXTINGUISHING FOAM DESIGNED FOR USE ON SOLVENTS, SUCH AS ALCOHOLS AND ACETONE, THAT CAN DISSOLVE IN WATER. AN AR - AFFF TYPE FOAM IS RECOMMENDED. DILUTE IN A LARGE EXCESS OF WATER. CAREFULLY, AND WITH STIRRING, ADD APPROPRIATE DILUTE ACID SUCH AS SULFAMIC ACID OR VINEGAR. CONFIRM NEUTRALITY. FOR LARGE SPILLS, IF NECESSARY, GET ASSISTANCE FROM PROFESSIONAL SPILL CLEAN UP TEAM. FOR SMALL SPILLS, CAREFULLY NEUTRALIZE SPILL BY ADDING APPROPRIATE DILUTE ACID SUCH AS VINEGAR. WORK SLOWLY TO AVOID BOILING OR SPATTERING. CONTINUE TO ADD NEUTRALIZING AGENT UNTIL REACTION STOPS. LET COOL BEFORE COLLECTING. OR USE A COMMERCIALY AVAILABLE CAUSTIC (ALKALINE OR BASIC) SPILL CLEAN-UP KIT. FOLLOW KIT DIRECTIONS EXACTLY. WORKING FROM AROUND THE EDGES OF THE SPILL INWARD, COVER WITH BENTONITE, VERMICULITE, OR COMMERCIALY AVAILABLE INORGANIC ABSORBENT MATERIAL. MIX IN SUFFICIENT ABSORBENT UNTIL IT APPEARS DRY. COLLECT AS MUCH OF THE SPILLED MATERIAL AS POSSIBLE USING NON-SPARKING

TOOLS. CLEAN UP RESIDUE WITH WATER. COLLECT THE RESULTING RESIDUE CONTAINING SOLUTION. PLACE IN A CLOSED CONTAINER APPROVED FOR TRANSPORTATION BY APPROPRIATE AUTHORITIES. PLACE IN A METAL CONTAINER APPROVED FOR TRANSPORTATION BY APPROPRIATE AUTHORITIES. COVER, BUT DO NOT SEAL FOR 48 HOURS. DISPOSE OF COLLECTED MATERIAL AS SOON AS POSSIBLE.

IN THE EVENT OF A RELEASE OF THIS MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE QUALIFIES AS REPORTABLE ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING:

KEEP OUT OF THE REACH OF CHILDREN. THIS PRODUCT IS NOT INTENDED TO BE USED WITHOUT PRIOR DILUTION AS SPECIFIED ON THE PRODUCT LABEL. AVOID BREATHING OF VAPORS, MISTS OR SPRAY. AVOID SKIN CONTACT. AVOID EYE CONTACT WITH VAPORS, MISTS, OR SPRAY. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH EXPOSED AREAS THOROUGHLY WITH SOAP AND WATER. AVOID CONTACT WITH OXIDIZING AGENTS.

7.2 STORAGE:

KEEP CONTAINER IN WELL-VENTILATED AREA. STORE AWAY FROM OXIDIZING AGENTS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS:

USE IN A WELL-VENTILATED AREA.

NOTE:

WHEN USED AS DIRECTED AND DILUTED AND DISPENSED WITH A TWIST 'N FILL(TM) CHEMICAL DISPENSER, SPECIAL VENTILATION IS NOT REQUIRED.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE):

8.2.1 EYE/FACE PROTECTION: AVOID EYE CONTACT WITH VAPORS, MISTS, OR SPRAY.

NOTE:

WHEN USED AS DIRECTED AND DILUTED AND DISPENSED WITH A TWIST 'N FILL(TM) CHEMICAL DISPENSER, EYE CONTACT WITH THE CONCENTRATE IS NOT EXPECTED TO OCCUR.

IF THE PRODUCT IS NOT USED WITH THE TWIST 'N FILL SYSTEM OR IF THERE IS AN ACCIDENTAL RELEASE, THE FOLLOWING EYE PROTECTION IS RECOMMENDED: INDIRECT VENTED GOGGLES.

8.2.2 SKIN PROTECTION: AVOID SKIN CONTACT.

NOTE:

WHEN USED AS DIRECTED AND DILUTED AND DISPENSED WITH A TWIST 'N FILL(TM) CHEMICAL DISPENSER, SKIN CONTACT WITH THE CONCENTRATE IS NOT EXPECTED TO OCCUR. SELECT AND USE GLOVES AND/OR PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT BASED ON THE RESULTS OF AN EXPOSURE ASSESSMENT. CONSULT WITH YOUR GLOVE AND/OR PROTECTIVE CLOTHING MANUFACTURER FOR SELECTION OF APPROPRIATE COMPATIBLE MATERIALS.

IF THE PRODUCT IS NOT USED WITH THE TWIST 'N FILL SYSTEM OR IF THERE IS AN ACCIDENTAL RELEASE, SELECT AND USE GLOVES AND/OR PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT BASED ON THE RESULTS OF AN EXPOSURE ASSESSMENT. CONSULT WITH YOUR GLOVE AND/OR PROTECTIVE CLOTHING MANUFACTURER FOR SELECTION OF APPROPRIATE COMPATIBLE MATERIALS. GLOVES MADE FROM THE FOLLOWING MATERIAL IS RECOMMENDED: BUTYL RUBBER, NEOPRENE, NITRILE.

THE FOLLOWING PROTECTIVE CLOTHING MATERIAL(S) ARE RECOMMENDED:

APRON - NEOPRENE, BOOTS - NEOPRENE.

8.2.3 RESPIRATORY PROTECTION:

AVOID BREATHING OF VAPORS, MISTS OR SPRAY.

NOTE:

WHEN USED AS DIRECTED AND DILUTED AND DISPENSED WITH A TWIST 'N FILL(TM) CHEMICAL DISPENSER, RESPIRATORY PROTECTION IS NOT REQUIRED.

IF THE PRODUCT IS NOT USED WITH THE TWIST 'N FILL SYSTEM OR IF THERE IS AN ACCIDENTAL RELEASE, SELECT ONE OF THE FOLLOWING NIOSH APPROVED RESPIRATORS BASED ON AIRBORNE CONCENTRATION OF CONTAMINANTS AND IN ACCORDANCE WITH OSHA REGULATIONS:

HALF FACEPIECE OR FULLFACE AIR-PURIFYING RESPIRATOR WITH ORGANIC VAPOR CARTRIDGES. CONSULT THE CURRENT 3M RESPIRATORY SELECTION GUIDE FOR ADDITIONAL INFORMATION OR CALL 1-800-243-4630 FOR 3M TECHNICAL ASSISTANCE.

8.2.4 PREVENTION OF SWALLOWING:

DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH EXPOSED AREAS THOROUGHLY WITH SOAP AND WATER.

8.3 EXPOSURE GUIDELINES:

INGREDIENT	AUTHORITY	TYPE	LIMIT	ADDITIONAL INFORMATION
ETHANOLAMINE	ACGIH	TWA	3 PPM	
ETHANOLAMINE	ACGIH	STEL	6 PPM	
ETHANOLAMINE	OSHA	TWA	3 PPM	TABLE Z-1A
ETHANOLAMINE	OSHA	STEL	6 PPM	TABLE Z-1A
POLYETHYLENE GLYCOLS	AIHA	TWA, AS AEROSOL	10 MG/M3	

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

CMRG: CHEMICAL MANUFACTURER RECOMMENDED GUIDELINE

OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

AIHA:

AMERICAN INDUSTRIAL HYGIENE ASSOCIATION WORKPLACE ENVIRONMENTAL EXPOSURE LEVEL (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC PHYSICAL FORM: LIQUID

ODOR, COLOR, GRADE: BRIGHT, CLEAR RED LIQUID WITH CITRUS FRAGRANCE

GENERAL PHYSICAL FORM: LIQUID

FLASH POINT: 178 DEG. F
(TEST METHOD: TAGLIABUE CLOSED CUP)

BOILING POINT: >200 DEG. F

VAPOR PRESSURE: </=27 PSIA (@ 131 DEG. F)

SPECIFIC GRAVITY: APPROXIMATELY 1 (REF STD: WATER=1)

pH: 10 - 11

SOLUBILITY IN WATER: COMPLETE

EVAPORATION RATE: APPROXIMATELY 1 (REF STD: WATER=1)

VOLATILE ORGANIC COMPOUNDS: <4%
(TEST METHOD: CALCULATED PER CARB TITLE 2)

VOC LESS H2O & EXEMPT SOLVENTS:
<200 G/L (TEST METHOD: CALCULATED PER CARB TITLE 2)

VISCOSITY: <100 CENTIPOISE

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE.

MATERIALS AND CONDITIONS TO AVOID: STRONG OXIDIZING AGENTS

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

SUBSTANCE	CONDITION
CARBON MONOXIDE	NOT SPECIFIED
CARBON DIOXIDE	NOT SPECIFIED
OXIDES OF NITROGEN	NOT SPECIFIED

SECTION 11: TOXICOLOGICAL INFORMATION

PLEASE CONTACT THE ADDRESS LISTED IN SECTION 1 OF THIS MSDS FOR TOXICOLOGICAL INFORMATION ON THIS MATERIAL AND/OR ITS COMPONENTS.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: NOT DETERMINED.

CHEMICAL FATE INFORMATION: NOT DETERMINED.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

INCINERATE IN AN INDUSTRIAL OR COMMERCIAL FACILITY. INCINERATE IN A PERMITTED HAZARDOUS WASTE INCINERATOR.

AS A DISPOSAL ALTERNATIVE, DISPOSE OF WASTE PRODUCT IN A PERMITTED HAZARDOUS WASTE FACILITY.

AS A DISPOSAL ALTERNATIVE, DISPOSE OF WASTE PRODUCT IN A FACILITY PERMITTED TO ACCEPT CHEMICAL WASTE.

EPA HAZARDOUS WASTE NUMBER (RCRA): NOT REGULATED

SINCE REGULATIONS VARY, CONSULT APPLICABLE REGULATIONS OR AUTHORITIES BEFORE DISPOSAL.

SECTION 14: TRANSPORT INFORMATION

ID NUMBER	UPC
70-0713-1422-6	500-48011-19212-8
70-0713-1424-2	500-48011-19211-1
70-0713-1423-4	500-48011-23891-8
70-0713-1425-9	500-48011-23908-3

PLEASE CONTACT THE EMERGENCY NUMBERS LISTED IN SECTION 1 OF THIS MSDS FOR TRANSPORTATION INFORMATION FOR THIS MATERIAL.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

311/312 HAZARD CATEGORIES:

FIRE HAZARD: YES

PRESSURE HAZARD: NO

REACTIVITY HAZARD: NO

IMMEDIATE HAZARD: YES

DELAYED HAZARD: NO

STATE REGULATIONS:

CHEMICAL INVENTORIES:

THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE CHEMICAL NOTIFICATION REQUIREMENTS OF TSCA.

ALL APPLICABLE CHEMICAL INGREDIENTS IN THIS MATERIAL ARE LISTED ON THE EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES (EINECS), OR ARE EXEMPT POLYMERS WHOSE MONOMERS ARE LISTED ON EINECS.

ALL THE COMPONENTS OF THIS PRODUCT ARE LISTED ON CHINA'S INVENTORY OF CHEMICAL SUBSTANCES.

THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH NOTIFICATION REQUIREMENTS IN THE PHILIPPINES.

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST.

INTERNATIONAL REGULATIONS:

THIS MSDS HAS BEEN PREPARED TO MEET THE U.S. OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA HAZARD CLASSIFICATION:

HEALTH 2
FLAMMABILITY 2
REACTIVITY 0
SPECIAL HAZARDS NONE

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS ARE DESIGNED FOR USE BY EMERGENCY RESPONSE PERSONNEL TO ADDRESS THE HAZARDS THAT ARE PRESENTED BY SHORT-TERM, ACUTE EXPOSURE TO A MATERIAL UNDER CONDITIONS OF FIRE, SPILL, OR SIMILAR EMERGENCIES. HAZARD RATINGS ARE PRIMARILY BASED ON THE INHERENT PHYSICAL AND TOXIC PROPERTIES OF THE MATERIAL BUT ALSO INCLUDE THE TOXIC PROPERTIES OF COMBUSTION OR DECOMPOSITION PRODUCTS THAT ARE KNOWN TO BE GENERATED IN SIGNIFICANT QUANTITIES.

HMS HAZARD CLASSIFICATION:

HEALTH 2
FLAMMABILITY 2
REACTIVITY 0
PROTECTION X - SEE PPE SECTION.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS(R*)) HAZARD RATINGS ARE DESIGNED TO INFORM EMPLOYEES OF CHEMICAL HAZARDS IN THE WORKPLACE. THESE RATINGS ARE BASED ON THE INHERENT PROPERTIES OF THE MATERIAL UNDER EXPECTED CONDITIONS OF NORMAL USE AND ARE NOT INTENDED FOR USE IN EMERGENCY SITUATIONS. HMIS(R*) RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED HMIS(R*) PROGRAM. HMIS(R*) IS A REGISTERED MARK OF THE NATIONAL PAINT AND COATINGS ASSOCIATION (NPCA).

REVISION CHANGES:

SECTION 1: PRODUCT NAME WAS MODIFIED.
MSDS HEADING: PRODUCT NAME WAS MODIFIED.
SECTION 16: WEB ADDRESS HEADING WAS ADDED.

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