



413 BONDING ADDITIVE

MSDS Number

BBKJT

National Stock Number

8040-00F002027

Product Name

413 BONDING ADDITIVE

Manufacturer

TENNANT CO

Product Identification

Product ID:413 BONDING ADDITIVE

MSDS Date:11/01/1985

FSC:8040

NIIN:00F002027

MSDS Number: BBKJT

Responsible Party

TENNANT CO

701 N LILAC DR

MINNEAPOLIS , MN 55440-1452

US

Emergency Phone: 612-544-5163

Info Phone: 612-540-1381

Cage: 59500

Contractor

TENNANT CO

1452

MINNEAPOLIS, MN 55440-1452

US

612-540-1556/800-553-8033

Cage: 59500

Ingredients

PROPYLENE GLYCOL METHYL ETHER ACETATE

CAS: 108-65-6

RTECS: AI8925000

Fraction By Weight: 70-80%

PROPRIETARY ADDITIVES

Fraction By Weight: 20-30%

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:PRODUCT CAUSES MILD IRRITATION OF BODY TISSUES. IT DEPRESSES THE CENTRAL NERVOUS SYSTEM AND MAY CAUSE KIDNEY AND LIVER DAMAGE. IT MAY BE FATAL IF INGESTED.

Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS



LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.
Effects of Overexposure: EYE: SEVERE IRRITATION POSSIBLE CORNEAL DAMAGE.
SKIN: MILD IRRITATION, IT MAY SENSITIZE ACUTE ALLERGIC DERMATITIS.
INHALED: RESPIRATORY IRRITATION, CENTRAL NERVOUS SYSTEM DEPRESSION.
INGESTED: G/I IRRITATION AND DISTRESS. LOW SINGLE DOSE TOXICITY. IT
MAY CAUSE LIVER AND/OR KIDNEY DAMAGE.
Medical Cond Aggravated by Exposure: PERSONS WITH A HISTORY OF KIDNEY OR
LIVER DISORDERS MAYBE AT INCREASED RISK FROM EXPOSURE.

First Aid

First Aid: EYE: FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN: WASH WITH
SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRER BEFORE
REUSE. INHALED: REMOVE TO FRESH AIR. RESTORE BREATHING IF
NECESSARY. INGESTED: DO NOT INDUCE VOMITING. GIVE 2 LARGE GLASSES
OF MILK OR WATER AND GET IMMEDIATE MEDICAL CARE. GIVE NOTHING BY
MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE, SEE A
DOCTOR.

Fire Fighting

Flash Point: 108F, 42C
Lower Limits: 1.5
Upper Limits: 7.0
Extinguishing Media: USE CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. (NFPA
CLASS B)
Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard: WATER MAY BE INEFFECTIVE IN FIGHTING
FIRE. FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS
DECOMPOSITION PRODUCTS. CLOSED CONTAINERS MAY RUPTURE.

Accidental Release

Spill Release Procedures: ELIMINATE SOURCES OF IGNITION & VENTILATE
AREA. WIPE/SOAK UP WITH PAPER TOWEL OR INERT ABSORBENT. PUT IN
DISPOSAL CONTAINER. FLUSH RESIDUE WITH WATER. LARGE SPILL:
VENTILATE AREA. IF POSSIBLE, STOP LEAK. DIKE TO RETAIN RUN OFF.
VACUUM UP FREE LIQUID.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. WATER DILUTION
RECOMMENDED.

Handling

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED
AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT
CONTAINERS FROM PHYSICAL DAMAGE.
Other Precautions: NONE

Exposure Controls

Respiratory Protection: RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE
NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC DUST/MIST IF EXPOSURE IS
ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING
TO RESPIRATOR USE.
Ventilation: NORMAL VENTILATION IS USUALLY SUFFICIENT. SUPPLEMENT WITH
LOCAL EXHAUST IF PEL/TLV IS EXCEEDED.
Protective Gloves: NEOPRENE, NITRILE, PVC OR NATURAL RUBBER
Eye Protection: SAFETY GLASSES OR SPLASH GOGGLES
Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER. AVOID
PROLONGED AND/OR REPEATED CONTACT BY USING APPROPRIATE CLOTHING.
Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. AVOID ANY UNNECESSARY CONTACT.
Supplemental Safety and Health
PART NO 08526.

Chemical Properties

HCC: F4
Boiling Pt: B.P. Text: 295F, 146C
Vapor Pres: 3.7 MM
Vapor Density: >1



Spec Gravity:1.00
Evaporation Rate & Reference:Solubility in Water:NEGLIGIBLE
Appearance and Odor:CLEAR LIQUID, ESTER LIKE ODOR

Stability

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS
Stability Condition to Avoid:NO INFORMATION GIVEN BY MANUFACTURER
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE AND
SILICON OXIDES.

Disposal

Waste Disposal Methods:DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL
REGULATIONS. DGSC-SSH SUGGESTS THAT DISPOSAL MAY BE DONE BY
INCINERATION.

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