

REPUBLIC POWDERED METALS INC -- GACO N-450-11, NEOPRENE THINNER & CLEANER --
6850-00-182-6467

===== Product Identification =====

Product ID:GACO N-450-11, NEOPRENE THINNER & CLEANER

MSDS Date:07/27/1995

FSC:6850

NIIN:00-182-6467

Status Code:A

MSDS Number: CKYRM

=== Responsible Party ===

Company Name:REPUBLIC POWDERED METALS INC

Address:2628 PEARL ROAD

Box:724

City:MEDINA

State:OH

ZIP:44259

Countr

y:US

Info Phone Num:617-926-2300

Emergency Phone Num:(800)424-9300

Chemtrec Ind/Phone:(800)424-9300

CAGE:UO277

=== Contractor Identification ===

Company Name:RADIANT INTL LLC

Address:8501 N MOPAC BLVD

Box:201088

City:AUSTIN

State:TX

ZIP:78720-1088

Country:US

Phone:512-419-5224

Contract Num:SP0450-00-D-4021

CAGE:29913

Company Name:REPUBLIC POWDERED METALS INC

Address:2628 PEARL ROAD

Box:724

City:MEDINA

State:OH

ZIP:44259

Country:US

Phone:617-926-2300

CAGE:UO277

===== Composition/Informat

ion on Ingredients =====

Ingred Name:TOLUENE
CAS:108-88-3
RTECS #:XS5250000
= Wt:80.
OSHA PEL:100 PPM
ACGIH TLV:100 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:METHYL ISOBUTYL KETONE
CAS:108-10-1
RTECS #:SA9275000
= Wt:20.
OSHA PEL:50 PPM
ACGIH TLV:50 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA
:NO

Health Hazards Acute and Chronic:ACUTE: NAUSEA AND/OR NARCOSIS.
CHRONIC: NO INFORMATION AVAILABLE AT PRESENT TIME. TARGET ORGANS:
TOLUENE: BASED ON ANIMAL DATA. MAY CAUSE LIVER ABNORMALITIES,
KIDNEY, LUNG, AND SPLEEN DAMAGE. IN HUMAN S LIVER ABNORMALITIES.
METHYL ISOBUTYL KETONE: MAY CAUSE LIVER ABNORMALITIES, LUNG OR
BRAIN DAMAGE, BASED ON ANIMAL DATA.

Explanation of Carcinogenicity:CARCINOGENICITY: NO.

Effects of Overexposure:IRRITATION TO EYES AND MUCOUS MEMBRANES.

DRYNESS AND CRACKING OF SKIN. LIQUID INGESTION MAY CAUSE VOMITING.,
Medical Cond Aggravated by Exposure:RESPIRATORY AILMENTS.

===== First Aid Measures =====

First Aid:SKIN: WASH WITH SOAP AND WATER. REFER TO PYSICIAN IF
IRRITATION PERSISTS. EYES: FLUSH EYES ABUNDANTLY WITH CLEAN WATER
AND REFER TO A PHYSICIAN. EXCESSIVE INHALATION: REMOVE PATIENT TO
FRESH AIR OR GI VE OXYGEN. USE CPR IF PATIENT IS NOT BREATHING.
REFER TO PHYSICIAN. INGESTI

ON: DO NOT INDUCE VOMITING. REFER TO A PHYSICIAN. UTILIZE THE SUGGESTED METHODS LISTED ABOVE. IN EMERGENCY SITUATIONS, NOTIFY A PHYSICIAN.

===== Fire Fighting Measures =====

Flash Point Method:TCC
Flash Point:=4.4C, 40.F
Autoignition Temp:=458.9C, 858.F
Lower Limits:1.0
Upper Limits:7.5
Extinguishing Media:USE CO2, FOAM, DRY CHEMICAL FOR FIRE.
Fire Fighting Procedures:NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN. USE WATER SPRAY TO COOL FIRE-EXPOSED STRUCTURES AND DISPERSE VAPOR-CLOUD IF FIRE IS NOT PRESENT.
Unusual Fire/Explosion Hazard:VAPOR IS HEAVIER THAN AIR AND MAY TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASHBACK.

===== Accidental Release Measures =====

Spill Release Procedures:ABSORB SPILL IN SAND, EARTH, VERMICULITE, OIL-DRI, OR SOL-SPEED-DRI. SHOVEL ABSORBED MATERIAL INTO STEEL CONTAINER AND COVER.

===== Handling and Storage =====

Handling and Storage Precautions:KEEP CONTAINERS TIGHTLY CLOSED AND STORE IN APPROVED SOLVENT STORAGE AREA. KEEP AWAY FROM OPEN FLAME, HEAT, SPARKS, HOT SURFACES AND OXIDIZING AGENTS.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH-APPROVED ATMOSPHERE SUPPLYING OR AIR PURIFYING RESPIRATOR FOR ORGANIC VAPORS AS REQUIRED TO MAINTAIN EXPOSURE LEVELS BELOW RECOMMENDED LIMITS.
Ventilation:LOCAL EXHAUST: REMOVE VAPORS DURING PROCESSING. MECHANICAL EXHAUST: EXPLOSION-PROOF EQUIPMENT. SPECIAL: REDUCE VAPOR CONCENTRATIONS BELOW SPECIFIED LIMITS
Protective Gloves:PVA GLOVES.
Eye Protection:SAFETY GLASSES
Other Protective Equipment:PROTECTIVE CLOTHING AS REQUIRED TO PREVENT SKIN CONTACT.
Work Hygienic Practices:KEEP AREA CLEAN. CLEAN UP SPILLS IMMEDIATELY. PRACTICE GOOD PERSONAL HYGIENE.
Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:F2

Boiling Pt:=110.6C, 231.F

Vapor Pres:21 MM HG @ 20 C

Vapor Density:3.25

Spec Gravity:0.856 (7.13 LB/GAL)

VOC Grams/Liter:7.13

Appearance and Odor:CLEAR LIQUID, CHARACTERISTIC SOLVENT ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS.

Stability Condition to Avoid:AVOID HEAT, OPEN FLAMES, SPARKS, HOT SURFACES, AND OXIDIZING AGENTS.

Hazardous Decomposition Products:OXIDES OF CARBON.

Conditions to Avoi

d Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:THE EXPOSURE LIMITS LISTED IN INGREDIENTS ARE FOR AIR LEVELS ONLY. WHEN SKIN CONTACT OCCURS, OVEREXPOSURE MAH RESULT THOUGH AIR LEVELS ARE KLESS THAN LIMITS LISTED FOR INGREDIENTS.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CHEMICAL AND SOLVENT WASTE D ISPOSAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information:DOT NAME AND NUMBER: FLAMMABLE LIQUID, N.O.S. (CONTAINS: TOLUENE, METHYL ISOBUTYL KETONE), UN 1993.

===== Regulatory Information =====

State Regulatory Information:THIS PRODUCT CONTAINS TOLUENE, A CHEMICAL KNOWN TO THE STATE OF CALIFORNEA TO CAUSE REPRODUCTIVE TOXICITY.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.

n.