



Safety Data Sheet

Section 1 - Chemical Product and Company Information

Product Name: MCU-60 Product Code: MCU60-NEW

Trade Name: MCU-60

Manufactured by:
Smith Paint Products
2200 Paxton Street
Harrisburg, PA 17111
(800) 466-8781

Chemtec
2900 Fairview Park Drive
Falls Church, VA 22042-4513
(800) 262-8200

Emergency Hot Line:
(800) 424-9300

Section 2 - Hazards Identification

GHS Ratings:

Flammable liquid	2	Flash point < 23°C (73°F) and initial boiling point > 35°C (95°F)
Inhalation Toxicity	4	Gases>2500+<=20000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l
Eye corrosive	2B	Mild eye irritant: Subcategory 2B, Reversible in 7 days
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Carcinogen	1B	Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity
Reproductive toxin	1B	Presumed, Based on experimental animals
Organ toxin repeated exposure	2	Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases

GHS Hazards

H225	Highly flammable liquid and vapour
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H350	May cause cancer
H360	May damage fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment

P241	Use explosion-proof electrical/ventilating/light/.../equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash ... thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P285	In case of inadequate ventilation wear respiratory protection
P314	Get Medical advice/attention if you feel unwell
P321	Specific treatment (see ... on this label)
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313	if exposed or concerned: Get medical attention/advice
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P342+P311	Call a POISON CENTER or doctor/physician
P370+P378	In case of fire: Use CO2, dry chemical, or foam for extinction
P405	Store locked up
P403+P235	Store in a well-ventilated place. Keep container tightly closed
P501	Dispose of in accordance with all applicable local, state and federal regulations.

Signal Word: Danger



Acute Health Effects:

Eye Contact: Causes serious eye irritation.

Inhalation: Harmful if inhaled.

Skin Contact: May cause allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Section 3 - Composition/Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2	60.00% - 70.00%
tert-Butyl acetate	540-88-5	10.00% - 20.00%
SOLVENT NAPHTHA HEAVY AROMATIC	64742-94-5	5.00% - 10.00%
Acetyl Acetone	123-54-6	1.00% - 5.00%
Naphthalene	91-20-3	0.10% - 1.00%
SOLVENT NAPHTHA	64742-95-6	0.10% - 1.00%
Dodecanoic acid, 1,1'-(dibutylstannylene) ester	77-58-7	0.10% - 1.00%

Section 4 - First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Skin Contact: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband

Note to Physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5 - Fire Fighting Measures

Flash Point: N/A

LEL: 1.00

UEL: 7.00

Suitable Extinguishing Media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable Extinguishing Media: Do not use water jet.

Specific Hazards Arising From Chemical: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous Thermal Decomposition Products: Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Section 6 - Accidental Release Measures

Non-Emergency Personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide

adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Emergency Responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Small Spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7 - Handling and Storage

Protective Measures: on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage Requirements: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Occupational Hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 8 - Exposure Controls / Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE 28182-81-2	Not Established	Not Established	Not Established

tert-Butyl acetate 540-88-5	TWA: 200 ppm 8 hours. TWA: 950 mg/m ³ 8 hours.	TWA: 200 ppm 8 hours. TWA: 950 mg/m ³ 8 hours.	Not Established
SOLVENT NAPHTHA HEAVY AROMATIC 64742-94-5	Not Established	Not Established	Not Established
Acetyl Acetone 123-54-6	Not Established	Not Established	Not Established
Naphthalene 91-20-3	(Vacated) TWA: 10 ppm (Vacated) TWA: 50 mg/m ³ (Vacated) STEL: 15 ppm (Vacated) STEL: 75 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 ppm Skin	Not Established
SOLVENT NAPHTHA 64742-95-6	Not Established	Not Established	Not Established
Dodecanoic acid, 1,1'- (dibutylstannylene) ester 77-58-7	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	Not Established	Not Established

Engineering Controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Protective Gear: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstance:

Appearance: Liquid Density: 8.71 lb/gal Flash point: 4 °C Grams VOC less water: 202	Odor: Characteristic Percent Solid 65%/wt Viscosity: 53 cp
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Section 10 - Stability and Reactivity

Stability: The product is stable.
STABLE

Incompatibilities: Reactive or incompatible with the following materials:
oxidizing materials.

Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Hazardous Decomposition: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 3,049mg/kg
Inhalation Toxicity LC50: 1mg/L

Component Toxicity

28182-81-2	HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE Oral LD50: 2,500 mg/kg (Rat (female)) Inhalation LC50: 1 mg/L (Rat (male))
540-88-5	tert-Butyl acetate Oral LD50: 4,100 mg/kg (Rat)
91-20-3	Naphthalene Oral LD50: 490 mg/kg (Rat) Inhalation LC50: 340 mg/m3 (Rat)
64742-95-6	SOLVENT NAPHTHA Oral LD50: 3,492 mg/kg (Rat) Dermal LD50: 3,160 mg/kg (Rabbit)
77-58-7	Dodecanoic acid, 1,1'-(dibutylstannylene) ester Oral LD50: 2,071 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rat)

Routes of exposure: Not available

Carcinogenicity: Not available

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
64742-95-6	SOLVENT NAPHTHA	1% - 1.0%	SOLVENT NAPHTHA:
91-20-3	Naphthalene	1% - 1.0%	Naphthalene:

Section 12 - Ecological Information

Component Ecotoxicity

tert-Butyl acetate	Acute LC50 327000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Naphthalene	Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout)	- 0.9 - 9.8 mg/l -

96.0 h

LC50 - Pimephales promelas (fathead minnow) - 1 - 6.5 mg/l - 96.0 h

NOEC - other fish - 1.8 mg/l - 3.0 d

LOEC - other fish - 3.2 mg/l - 3.0 d

Toxicity to daphnia
and other aquatic
invertebrates

EC50 - Daphnia magna (Water flea) - 1.00 - 3.40 mg/l - 48 h

Toxicity to algae EC50 - No information available. - 33.00 mg/l - 24 h

Bioaccumulation Fish Bioconcentration factor (BCF): 427 - 1,158

Other adverse

effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

SOLVENT NAPHTHA

Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

Expected to be readily biodegradable.

Transformation due to hydrolysis not expected to be significant

Transformation due to photolysis not expected to be significant

Expected to degrade rapidly in air.

Dodecanoic acid, 1,1'-
(dibutylstannylene) ester

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Persistence and degradability No data is available on the degradability of this product.

Section 13 - Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14 - Transport Information

This material is classified for transport as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
ADR/RID	PAINT	UN 1263	II	3
DOT	PAINT	UN 1263	II	3
IATA	PAINT	UN 1263	II	3
IMDG	PAINT	UN 1263	II	3

Section 15 - Regulatory Information

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

91-20-3 Naphthalene Carcinogen

R2K List

28182-81-2 HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE

91-20-3 Naphthalene

Section 16 - Other Information

The material contained in this Safety Data Sheet is based on information supplied to Smith Paint Products by the raw material suppliers of the individual components of this product. Smith Paint Products believes this information is truthful and reliable. However, no warranty is expressed or implied regarding the accuracy of this information, or of any product, method or apparatus mentioned and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and health and safety of your employees and users of this material. As more information becomes available from our vendors additional revisions will be forthcoming.

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