

SAFETY DATA SHEET



Date Issued : 1/10/2014
MSDS No : P200 & P400
Date Revised : 1/10/2014
Revision No : 1

Chem-Set C-19 Seaming Adhesive - All Colors

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Chem-Set C-19 Seaming Adhesive - All Colors

MANUFACTURER

Chemical Concepts Inc.
 410 Pike Road
 Huntingdon Valley, PA 19006
Service Number: 800.220.1966

24 HR. EMERGENCY TELEPHONE NUMBERS

INFOTRAC: 1.800.535.5053 :

COMMENTS: Safety Data Sheet (SDS) for all Chem-Set C19 Colors

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 4
 Skin Sensitization, YES
 Skin Irritation, Category 3
 Eye Irritation, Category 2B

Environmental:

Acute Toxicity, Category III
 Chronic Toxicity, Category IV

Physical:

Flammable Liquids, Category 2

GHS LABEL



Flame



Exclamation
mark

HAZARD STATEMENTS

H226: Flammable liquid and vapour.
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H320: Causes eye irritation.
 H315: Causes skin irritation.
 7708NAHS: Causes respiratory tract irritation.

PRECAUTIONARY STATEMENT(S)

Prevention:

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P270: Do not eat, drink or smoke when using this product.

Storage:

SAFETY DATA SHEET



Date Issued : 1/10/2014
MSDS No : P200 & P400
Date Revised : 1/10/2014
Revision No : 1

Chem-Set C-19 Seaming Adhesive - All Colors

P102: Keep out of reach of children.
 P233: Keep container tightly closed.
 P271: Use only outdoors or in a well-ventilated area.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: WARNING! FLAMMABLE LIQUID AND VAPOR. Harmful, Skin Sensitizer. Irritant.

POTENTIAL HEALTH EFFECTS

EYES: Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

SKIN: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

INGESTION: Can cause irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

INHALATION: Respiratory tract irritant. High concentrations may cause dizziness, headache, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.

CARCINOGENICITY: IARC has classified both MMA and benzoyl peroxide as Class 3 agents.

MEDICAL CONDITIONS AGGRAVATED: Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

ROUTES OF ENTRY: Eye and Skin Contact, Inhalation and Ingestion

TARGET ORGAN STATEMENT: Eyes. Skin. Respiratory system. Digestive system. Liver. Kidney. Olfactory Function.

IRRITANCY: Eyes, nose, throat, respiratory tract, and skin irritation.

SENSITIZATION: May cause allergic respiratory and skin reaction. Respiratory and skin sensitizer.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Methyl Methacrylate Monomer (MMA)	45 - 70	80-62-6
Polymethyl Methacrylate	15 - 40	9011-87-4
TSRN 800941-5020P	3 - 10	NA
TSRN 800941-5016P	1 - 5	NA
Benzoyl Peroxide	10 - 30	94-36-0
Diisobutyl Phthalate	15 - 40	84-69-5
Texanol Benzyl Phthalate	15 - 40	16883-83-3
TSRN 800941-5006P	5 - 20	NA
Treated Fumed Silica	1 - 5	68909-20-6

**COMMENTS: Note: MMA, Polymethyl Methacrylate, TSRN 800941-5016P and TSRN 800941-5020P are contained in the Adhesive (10)
 Benzoyl Peroxide, Diisobutyl Phthalate, Texanol Benzyl Phthalate and TSRN 800941-5006P are contained in the Activator (1)**

SAFETY DATA SHEET



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MSDS No : P200 & P400
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The wt % is based on each formula, not the blended product.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of tempered water (at least 15-20 minutes) lifting upper and lower eye lids occasionally. Get immediate medical attention.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash or dispose of clothing before reuse.

INGESTION: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Can cause stinging, watering, redness, and swelling.

SKIN: May cause skin irritation; itching, redness, rashes, hives, burning and swelling.

INGESTION: Ingestion of this material can cause mouth, throat and gastrointestinal tract irritation and abdominal pains.

INHALATION: Respiratory tract irritation. High concentration may cause dizziness, headache, and anesthetic effects.

ACUTE TOXICITY: Overexposure can cause headaches, dizziness, nausea and vomiting. Irritant.

CHRONIC EFFECTS: Prolonged skin contact may lead to burning associated with severe reddening, swelling and possible tissue destruction.

ADDITIONAL INFORMATION: Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Class IB

GENERAL HAZARD: Flammable liquid and vapor.

EXTINGUISHING MEDIA: Use carbon dioxide (CO₂) or dry chemical when fighting fires involving this material.

OTHER CONSIDERATIONS: Water may cause frothing.

EXPLOSION HAZARDS: Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

FIRE FIGHTING PROCEDURES: Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

FIRE FIGHTING EQUIPMENT: As in any fire, wear Self-Contained Breathing Apparatus (SCBA) MSHA/NIOSH approved or equivalent and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as sawdust or vermiculite, and sweep into closed

SAFETY DATA SHEET



Date Issued : 1/10/2014
MSDS No : P200 & P400
Date Revised : 1/10/2014
Revision No : 1

Chem-Set C-19 Seaming Adhesive - All Colors

containers for disposal. After all visible traces, including ignitable vapors, have been removed, thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal. Only those persons who are adequately trained, authorized, and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up.

LARGE SPILL: Keep spectators away. Only those persons who are adequately trained, authorized and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up. Ventilate the area by natural means or by explosion proof mechanical means (i.e. fans). Know and prepare for spill response before using or handling this product. Eliminate all ignition sources (flames, hot surfaces, portable heaters and sources of electrical, static, or frictional sparks). Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered and labeled metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools and appropriate PPE. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent.

COMMENTS: Pump or shovel to storage/salvage vessels. Add inhibitor to prevent polymerization.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: For professional or industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumption. No smoking. Do not breathe vapors. Avoid contact with body. Empty containers must not be washed and re-used for any purpose. Contact lens wearers must wear protective eye wear around chemical vapors and liquid. Wash hands thoroughly after handling. To prevent build-up of vapors, use adequate natural and/or mechanical ventilation (e.g. open all windows and doors to achieve cross ventilation).

HANDLING: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and grounding procedures. Do not reuse containers.

STORAGE: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible materials. Keep container tightly closed when not in use.

SHELF LIFE: 18 months from manufacture date

COMMENTS: Wash thoroughly after handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

SAFETY DATA SHEET



Date Issued : 1/10/2014
MSDS No : P200 & P400
Date Revised : 1/10/2014
Revision No : 1

Chem-Set C-19 Seaming Adhesive - All Colors

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

Chemical Name		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
		ppm	mg/m ³	ppm	mg/m ³
Methyl Methacrylate Monomer (MMA)	TWA	100 ppm [1]	410 mg/m ³ [1]	50 ppm	205 mg/m ³
	STEL	NL ppm [1]	NL mg/m ³ [1]	100 ppm	410 mg/m ³
Polymethyl Methacrylate	TWA	NL [1]	NL [1]	NL [1]	NL [1]
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
TSRN 800941-5020P	TWA	NL [1]	NL [1]	NL [1]	NL [1]
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
TSRN 800941-5016P	TWA	NL [1]	NL [1]	NL [1]	NL [1]
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
Benzoyl Peroxide	TWA	NL [1]	5 mg/m ³ [1]	NL [1]	5 mg/m ³ [1]
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
Diisobutyl Phthalate	TWA	NL [1]	NL [1]	0.45 ppm	5 mg/m ³
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
Texanol Benzyl Phthalate	TWA	NL [1]	NL [1]	NL [1]	NL [1]
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
TSRN 800941-5006P	TWA	NL [1]	NL [1]	NL [1]	NL [1]
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
Treated Fumed Silica	TWA	NL [1]	NL [1]	NL [1]	NL [1]
	STEL	NL [1]	NL [1]	NL [1]	NL [1]

Footnotes:

1. NL = Not Listed

ENGINEERING CONTROLS: Provide sufficient explosion proof mechanical (general and/or local exhaust) ventilation to maintain exposure below the occupational exposure limit and exposure concentration. Use only in a well ventilated area. Ground and bond all equipment.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields, goggles or full-face shield as required by 29 CFR 1910.133 - OSHA Eye and Face Protection Standard. A suitable emergency eye wash station and safety shower should be located near the work station.

SAFETY DATA SHEET



Date Issued : 1/10/2014
MSDS No : P200 & P400
Date Revised : 1/10/2014
Revision No : 1

Chem-Set C-19 Seaming Adhesive - All Colors

SKIN: Wear chemical resistant, impervious gloves.

RESPIRATORY: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

WORK HYGIENIC PRACTICES: Wash hands thoroughly after use.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Adhesive - Paste
 Activator - Liquid

ODOR: Fragrant - Adhesive
 Mild Ester - Activator

ODOR THRESHOLD: Not Determined

COLOR: Various

pH: Not Determined

PERCENT VOLATILE: Not Determined

FLASHPOINT AND METHOD: 10°C (50°F) TAG CC

Notes: Fine mists explosive below flash point.

FLAMMABLE LIMITS: 1.7 to 12.5

AUTOIGNITION TEMPERATURE: 421°C (790°F)

VAPOR PRESSURE: Adhesive - 28 mmHg
 Activator - < 0.5 mmHg

VAPOR DENSITY: 3.5

Notes: Activator - Not Determined

BOILING POINT: 100.5°C (213°F)

Notes: Activator BP - > 550 oF (287.7 oC)

FREEZING POINT: Not Determined

MELTING POINT: -47.7°C (-54.0°F)

Notes: Activator - Not Determined

POUR POINT: Not Determined

SOLUBILITY IN WATER: Not Determined

EVAPORATION RATE: < 3

Notes: Activator: < 1 (butyl acetate=1)

DENSITY: 7.753 - 8.754

Notes: Activator - Not Determined

PARTICLE SIZE: Not Determined

SAFETY DATA SHEET



Date Issued : 1/10/2014
MSDS No : P200 & P400
Date Revised : 1/10/2014
Revision No : 1

Chem-Set C-19 Seaming Adhesive - All Colors

SPECIFIC GRAVITY: 0.93 to 1.05

Notes: Activator - Not Determined

VISCOSITY: Not Determined

MOLECULAR WEIGHT: Mixture

(VOC): 5.300 gr/L EPA Method 24 VOC

Notes: Activator: Not Determined

COEFF. OIL/WATER: Not Determined

OXIDIZING PROPERTIES: Not Determined

10. STABILITY AND REACTIVITY

STABLE: No

HAZARDOUS POLYMERIZATION: No

STABILITY: Unstable.

POLYMERIZATION: Polymerization may occur under certain conditions.

CONDITIONS TO AVOID: Adhesive - Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing conditions. Material can soften paint and rubber.

Activator - Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Contamination, direct sunlight, friction and prolonged storage above 100 oF (38 oC).

INCOMPATIBLE MATERIALS: Oxidizing agents, strong acids and strong alkalis.

11. TOXICOLOGICAL INFORMATION

ACUTE

SAFETY DATA SHEET



Date Issued : 1/10/2014
MSDS No : P200 & P400
Date Revised : 1/10/2014
Revision No : 1

Chem-Set C-19 Seaming Adhesive - All Colors

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Methyl Methacrylate Monomer (MMA)	7872 mg/kg (rats)	> 5 g/kg (rabbits)	78000 mg/cub m (4- hr dose - rat)
Polymethyl Methacrylate	No data	No data	No data
Benzoyl Peroxide	6400 mg/kg (rats)	No data	2 mg/L (96- hr dose - guppy)
Diisobutyl Phthalate	10400 to 15000 mg/kg (rats)	10400 mg/kg (guinea pig)	No data
Texanol Benzyl Phthalate	No data	> 10000 mg/kg (rabbits)	No data
TSRN 800941-5006P	No data	No data	No data
Treated Fumed Silica	> 2000 mg/kg (rats)	No data	No data

CARCINOGENICITY

Chemical Name	IARC Status
Methyl Methacrylate Monomer (MMA)	3
Benzoyl Peroxide	3

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product contains components that may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.

ECOTOXICOLOGICAL INFORMATION: Contains components that are potentially toxic to freshwater and saltwater ecosystems.

BIOACCUMULATION/ACCUMULATION: Contains components with the potential to bio-accumulate.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all local, state and federal regulations.

GENERAL COMMENTS: Adhesive

DANGER! Rags, steel wool, and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled metal container.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

SAFETY DATA SHEET



Date Issued : 1/10/2014
MSDS No : P200 & P400
Date Revised : 1/10/2014
Revision No : 1

Chem-Set C-19 Seaming Adhesive - All Colors

PROPER SHIPPING NAME: Adhesives

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: 1133

PACKING GROUP: III

NAERG: 128

OTHER SHIPPING INFORMATION: contains (Methyl Methacrylate Monomer, Benzoyl Peroxide)

ORM-D Small Quantity Exemption

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Flammable
Liquid

** for containers > 1.3 gallons (4.9 Liters) **

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: Yes **PRESSURE GENERATING:** No **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC:** Yes

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt. %	CAS
Methyl Methacrylate Monomer (MMA)	45 - 70	80-62-6
Benzoyl Peroxide	10 - 30	94-36-0

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt. %	CERCLA RQ
Methyl Methacrylate Monomer (MMA)	45 - 70	1,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Methyl Methacrylate Monomer (MMA)	80-62-6
Polymethyl Methacrylate	9011-87-4
Benzoyl Peroxide	94-36-0
Diisobutyl Phthalate	84-69-5
Texanol Benzyl Phthalate	16883-83-3
Treated Fumed Silica	68909-20-6

SAFETY DATA SHEET



Date Issued : 1/10/2014
 MSDS No : P200 & P400
 Date Revised : 1/10/2014
 Revision No : 1

Chem-Set C-19 Seaming Adhesive - All Colors

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Methyl Methacrylate Monomer (MMA)	Massachusetts Right to Know List Minnesota Right to Know List New Jersey Right to Know List Pennsylvania Right to Know List Rhode Island Right to Know List
Benzoyl Peroxide	California Right to Know List Massachusetts Right to Know List Minnesota Right to Know List New Jersey Right to Know List Pennsylvania Right to Know List Rhode Island Right to Know List

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



Toxic

Flammable
Liquid

R36/37/38: Irritating to eyes, respiratory system and skin.

R43: May cause sensitization by skin contact.

R11: Highly flammable.

WHMIS CLASS: Adhesive - WHMIS Hazard Class: B2, D2B

Activator - WHMIS Hazard Class: D2B

16. OTHER INFORMATION

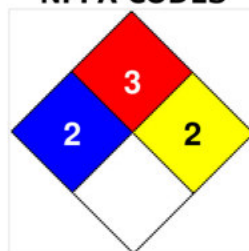
INFORMATION CONTACT: (781) 878-7015

REVISION SUMMARY: This MSDS replaces the 6/29/2012 MSDS. Revised: **Section 1:** Date Issued. **Section 16:** MANUFACTURER DISCLAIMER.

HMIS RATING

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		2
PERSONAL PROTECTION		B

NFPA CODES



GENERAL STATEMENTS: Keep out of reach of children

MANUFACTURER DISCLAIMER: To the best of our knowledge, the information contained in this SDS is accurate. It is intended to assist the user in his/her evaluation of the product's hazards and safety precautions to be taken in its use. The data in this SDS relate only to the specific material designated herein. We do not assume liability

SAFETY DATA SHEET

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Chem-Set C-19 Seaming Adhesive - All Colors

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