Page 2 of 10

Product Name: Scam Scaler -Oscoda plastics Product Code:

Print Date: 8/26/15 Lotal pages: Page 1 of 9

SAFETY DATA SHEET

1 Product and Company Identification

Product Name: Seam Sealer -Oscoda plastics

Product Code:

Chemical Type: Solvent Blend

Product Use: Clean-up and dilution of solvent based paint and ink.

Manufacturer: Rap Products Inc.

Revision Date: 8/17/2015

Address:

Emergency:

Phone:

1-800-535-5053

NOTE: The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. This information is provided as guidance for providing personal protection to your employees. The user has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. The user must meet all applicable safety and health standards.

Hazards toentification

GHS Classification:

Flammable liquids Category 2 Serious eye damage/eye irritation Category 2 Carcinogenicity Category 2 Specific target organ toxicity (single exposure) Category 3

GHS-Labeling



Signal Word: Danger

Hazard Statements

Highly flammable liquid and vapor Causes serious eye irritation Suspected of causing cancer May cause respiratory irritation

Precautionary Statements

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Use explosion-proof electrical/ventilating/lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

To:

Product Name: Seam Scaler Oscoda plastics

Product Code:

Print Date: 8/26/15 Total pages: Page 2 of 9

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Take off contaminated clothing and wash before reuse

Wash with plenty of soap and water.

IF exposed or concerned: Get medical advice/attention IF ON SKIN: Gently wash with plenty of soap and water IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

Store in a well-ventilated place. Keep container tightly closed

Dispose of contents/container to an approved waste disposal plant Disposal

NOTICE: Reports have associated repeated and prolonged OVEREXPOSURE to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents of this package may be harmful or fatal.

Aggravated Medical Condition Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions), Liver, Kidney

Composition / Information on Ingredients

MATERIAL	CAS#	WT%
Tetrahydrofuran	109-99-9	50-60
Methyl Ethyl Ketone	78-93-3	2-8
Methyl Isobutyl Ketone	108-10-1	5-12
Stabilizer	proprietary	<1
Polyvinyl Chloride Terpolymer	9002-86-2	10-20

4. First Alia Measures

Description of first aid measures

General advice Remove contaminated clothing and shoes. If symptoms persist, call a

physician.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position

> comfortable for breathing. If breathing has stopped, give artificial respiration. Get medical attention immediately. Inhaled furnes from heated polyvinyl chloride produced interstitial edema, as well as focal

bronchial and intra-alveolar hemorrhage.

Skin Contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. Wash contaminated clothing before

reuse. If skin irritation persists, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. If symptoms persist, call a physician.

Ingestion Rinse mouth. Get medical attention. Never give anything by mouth to an

unconscious person.

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Suspected of causing cancer. May cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Product Name: Seam Scaler - Oscoda plastics Product Code:

Print Date: 8/26/15 Total pages: Page 3 of 9

5. Fire Fighting Measures

Extinguishing media

Carbon dioxide (CO2). Dry chemical. Alcohol resistant foam. Suitable extinguishing media Unsuitable extinguishing media Water.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Accidental Release Neasures

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas Ensure adequate ventilation, especially in confined areas Remove all sources of ignition Do not breathe dust/fume/gas/mist/vapors/spray Avoid contact with skin, eyes and inhalation of vapors Use personal protection recommended in Section 8

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

Handling: FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN

Handling

Advice on safe handling: Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. Review all operations, which have the potential to generating and accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106 "Flammable and Combustible Liquids"; National Fire Protection Association (NFPA 77), "Recommended Practice on Static Electricity"; and/or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising Out of Static, Lightning, and stray Currents". Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air

To

Product Name: Seam Sealer Oscoda plastics Product Code:

Print Date: 8/26/15 Total pages: Page 4 of 9

exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Storage: Requirements for storage areas and containers: No smoking. Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards

B Exposure Controls / Personal Protection

MATERIAL	CAS#	TWA (OSHA)	TLV (ACGIH)
Tetrahydrofuran	109-99-9	200 ppm	50 ppm
Methyl Ethyl Ketone	78-93-3	200 ppm	200 ppm
Methyl Isobutyl Ketone	108-10-1	100 ppm	50 ppm
Polyvinyl Chloride Terpolymer	9002-86-2	N/A	1 mg/m3

In addition, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%): Benzene, Acetaldehyde, Cumene

PEL= Permissible Exposure Limits

TWA= Time Weighted Average (8 hr.)

TLV= Threshold Limit Value

STEL= Short Term Exposure Limit (15 min.)

EL= Excursion Limit

WEEL= Workplace Environmental Exposure Level

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures: 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.

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. Wash contaminated clothing before reusing. Ensure that evewash stations and safety showers are close to the workstation location.

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: 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.

Eyes: 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 or dusts.

To:

Product Name: Scam Scaler Oscoda plastics Product Code:

Print Date: 8/26/15 Total pages: Page 5 of 9

Skin: 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.

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.

Other Suggested Equipment: Eye wash station and emergency showers should be available. Spill containment equipment should be available.

9. Physical and Chemical Properties

Appearance Liquid Color Odor Odor Threshold Melting point/freezing point Boiling point / boiling range Flash point 21 °C **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air

Vapor Pressure Vapor density Density Relative density **Bulk density** Specific gravity Water solubility Partition coefficient (LogPow)

Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity **Explosive** properties **Oxidizing properties**

Colorless Ethereal. Fruity.

20 ppm - 50 ppm (THF)

Not determined Not determined

65°C (149°F) @ 760 mm Hg (THF)

Not determined Not determined Not determined

19.3 kPa (@ 20°C) (THF)

>1 (Air = 1) Not determined Not determined Not determined 0.89 (Water = 1) Not determined Not determined Not determined Not determined Not determined Not determined Not an explosive Not determined

Reactivity

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

Chemical stability

Stable under normal conditions

Product Name: Seam Scaler Oscoda plastics

Product Code:

Print Date: 8/26/15 Total pages: Page 6 of 9

Possibility of Hazardous Reactions

Reacts violently with Bromine.

Addition of anhydrous chlorides (hafnium tetrachloride, titanium tetrachloride, and zirconium tetrachloride) directive to tetrahydrofuran will cause a violent exothermic reaction.

Also incompatible with Calcium Hydride + heat, caustics (e.g. ammonia, ammonium hydroxide, calcium hyroxide, potassium hydroxide, sodium hydroxide), metal halides, moisture, lithium tetrahydroaluminate, borane, 2-aminophenol + potassium dioxide, sodium tetrahydroaluminate, and 2-aminophenol.

Conditions to avoid

Heat, ignition sources (sparks, flames), light, air, and incompatible materials

Incompatible materials

Reactive with oxidizing agents, acids, alkalis.

Hazardous Decomposition Products

Other incomplete combustion products

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Methyl Isobutyl Ketone

Additional Remarks Prolonged chronic exposure may cause kidney damage.

Eyes: Irritating to eyes.

Skin: Acute dermal LD50 (rabbit): 16,000 mg/kg Inhalation Acute 4 hours LC50 (rat): 2,000 mg/l Ingestion Acute oral LD50(rat): 2,080 mg/kg

Assessment toxicity to reproduction: Passes through the placental barrier in humans.

CARCINOGENICITY: This product contains no carcinogenic substances.

Methyl Ethyl Ketone

Inhalation. LC50:

>5000 ppm - rats - 6 hrs.

Oral LD50:

2.7-5.6 g/kg - rats

Skin absorption LD50: 5.0-13.0 g/kg - rabbits

MEK is not genotoxic, not carcinogenic, rats showed potential for fetal toxicity at levels >3000 ppm,

but no teratogenetic effects.

Tetrahydrofuran

Inhalation

Inhalation of vapors in high concentration may cause irritation of respiratory system

Eye contact

Contact with eyes may cause irritation

Skin Contact

Substance may cause slight skin irritation

Ingestion

Ingestion may cause irritation to mucous membranes

Chemical Name	Oral LD50	Dermal LD50	inhalation LC50
Tetrahydrofuran (CAS #: 109-	= 1650 mg/kg (Rat)		= 21000 ppm (Rat) 3 h
99-9)			The state of the s

Skin corrosion/irritation No information available

Serious eye damage/eye irritation Severely irritating to eyes

Sensitization No information available

Germ cell mutagenicity No information available

Carcinogenicity Suspected of causing cancer ACGIH A3

Reproductive toxicity No information available

STOT - single exposure

May cause respiratory irritation

STOT - repeated exposure

No information available

Aspiration hazard

No information available

Product Name: Seam Sealer -Oscoda plastics Product Code: Print Date: 8/26/15 Total pages: Page 7 of 9

information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):

Inhalation: Inhalation of fumes from heated polyvinyl chloride produced interstitial edema as well as focal bronchial and intra-alveolar hemorrhage.

Symptoms related to the physical, chemical and toxicological characteristics:

Explosives, Water reactive substances, Oxidizing, Self-reactive substances, Organic peroxides: Not applicable

Acute toxicity: oral: Not available dermal Not available Inhalation: Not available

Skin Corrosion/Irritation: Not available

Serious Eye Damage/ Irritation: Not available

Respiratory sensitizer: Not available Skin Sensitization: Not available Carcinogenecity: Not classified

-IARC: 3

-ACGIH, NTP, OSHA, Regulation 1272/2008, US EPA: Not applicable

-Inadequate evidence of carcinogenicity in humans and animals.

Mutagenicity: Not classified

in vitro- Salmonella typhimurium Ames test(Mouse lymphoma), with and without of metabolic

activation system: negative

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): Not available

-In rats inhalation of fumes from heated polyvinyl chloride produced interstitial edema as well as focal

bronchial and intra-alveolar hemorrhage in the lungs of some animals.

Rats and guinea-pigs exposed continuously to polyvinyl chloride dust for 24 hours/day for periods varying from 2-7 months were found to have extensive lung damage. This evidence for the classification is not enough.

Specific target organ toxicity (repeat exposure): Not available

Lungs may be affected by repeated or prolonged exposure to dust particles, resulting in fibrosis (pneumoconiosis). This evidence for the classification is not enough.

Aspiration Hazard: Not available

12. Ecological Information

AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is:

Tidewater Silversides 250 ppm or mg/L (24 hour exposure).

Keep out of sewers and natural water supplies.

The substance is toxic to aquatic organisms.

MOBILITY IN SOIL

This material is a mobile liquid.

DEGRADABILITY

This product is partially biodegradable.

ACCUMULATION

This product does not accumulate or biomagnify in the environment.

Disposal Considerations

The information in this MSDS pertains only to the product as shipped. Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste,

Product Name: Seam Sealer -Oscoda plastics Product Code:

Print Date: 8/21/15
Total pages: Page 8 of 8

Product: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

14. Transport information

Flammable Liquids, N.O.S.

15. Requistory Information

EPA REGULATION:

All components of this product are on the TSCA list.

SARA SECTION 311/312 HAZARDS: Acute Health, Chronic Health, Fire

SARA Title III Section 313 Supplier Notification

This product contains the indicated <*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

INGREDIENTS CAS	排	(REG.SECTION)	RQ(LBS)
Tetrahydrofuran	109-99-9	(311,312,313)	1000
Methyl Ethyl Ketone	78-93-3	(311,312,313)	5000
Methyl Isobutyl Ketone	108-10-1	(311,312,313)	5000
Polyvinyl Chloride Ternolymer	9002-86-2		

Product Name: Seam Scaler Oscoda plastics

Print Date: 8/26/15 Total pages: Page 9 of 9

Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

STATE REGULATIONS:

California Prop. 65:

Warning: This material may contain detectable quantities of the following chemicals, known to the State of California to cause cancer, birth defects or other reproductive harm, and which may be subject to the warning requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5): Benzene 71-43-2, Acetaldehyde 75-07-0, Cumene 98-82-8, METHYL ISOBUTYL KETONE 108-10-1

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Hazard ratings This information is intended solely for the use of individuals trained in the NFPA

and/or HMIS systems.

NFPA: Health: 2 Flammability: 3 Reactivity: 1

HMIS: Health: 2* Flammability: 3 Reactivity: 1

RATING: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT

Note:

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Chemical Solvents Inc makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Possession of an MSDS does not indicate that the possessor of the MSDS was a purchaser or user of the subject product.

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