

SAFETY DATA SHEET

U.S. HazCom GHS Format



Date Issued : 9/4/2014
 MSDS No : 40
 Date Revised : 10/14/2014
 Revision No : 6

REMOVE IR4

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: REMOVE IR4**GENERAL USE:** Removes ink from screen-printing screens**PRODUCT DESCRIPTION:** Ink Remover**PRODUCT CODE:** SCRP517, SCRP51700PQ001, SCRP51700PG001, SCRP51700ZG1X5, SCRP51700SG55C**MANUFACTURER**

SAATI

Chemicals

201 Fairview St. Extension

Fountain Inn, SC 29644

Emergency Contact: Ross Balfour**Emergency Phone:** 847-942-1719**Alternate Emergency Phone:** 864-601-8710**Customer Service:** 800-431-2200**Transportation:** 864-601-8305**E-Mail:** info.us@saati.com, <http://msds.saatiexpress.com>**PN:** 46736 / 16022545 / S-9157**24 HR. EMERGENCY TELEPHONE NUMBERS**INFOTRAC 800-535-5053 or 352-323-3500, 24-hours
everyday

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS**Health:**

Acute Toxicity (Oral), Category 4

Skin Irritation, Category 2

Eye Irritation, Category 2B

Target Organ Toxicity (Single exposure), Category 3

Environmental:

Acute Hazards to the Aquatic Environment, Category 2

Chronic Hazards to the Aquatic Environment, Category 2

Physical:

Flammable Liquids, Category 4

GHS LABEL

GHS07



GHS09

SIGNAL WORD: WARNING**HAZARD STATEMENTS**

H227: Combustible liquid.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H320: Causes eye irritation.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)**Prevention:**

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P264: Wash skin thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.

Response:

P370+P378: In case of fire: Use alcohol foam, carbon dioxide, dry chemical, or water spray for extinction.
 P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P330: Rinse mouth.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P362: Take off contaminated clothing and wash before reuse.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P391: Collect spillage.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with federal/state/local regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Liquid

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Tetrahydrofurfuryl alcohol	10 - 30	97-99-4
Dimethyl succinate	10 - 30	106-65-0
D-limonene	0.1 - 10	5989-27-5

4. FIRST AID MEASURES

EYES: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

SKIN: Wash off with soap and plenty of water. Consult a physician.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS: Carbon oxides

FIRE FIGHTING PROCEDURES: Use water spray to cool unopened containers.

FIRE FIGHTING EQUIPMENT: Wear self contained breathing apparatus for fire fighting if necessary.

HAZARDOUS DECOMPOSITION PRODUCTS: Not Available

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

LARGE SPILL: Wear suitable protective equipment. Do not touch or walk through spilled material. Contain spillage, soak up with absorbent material such as sand, earth, vermiculite and transfer to a container for disposal according to local/state/federal regulations. Flush spill area with water.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

STORAGE: 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.

SHELF LIFE: 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)			
		EXPOSURE LIMITS	
		ACGIH TLV	
Chemical Name		ppm	mg/m ³
Tetrahydrofurfuryl alcohol	TWA	0.5	
D-limonene	TWA	20	

ENGINEERING CONTROLS: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).

SKIN: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

RESPIRATORY: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).

PROTECTIVE CLOTHING: Apron recommended.

WORK HYGIENIC PRACTICES: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when handling this material: (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics areas with this material stored. (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the restrooms. (3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Citrus

COLOR: Colorless

pH: Not Available

PERCENT VOLATILE: Not Available

FLASH POINT AND METHOD: 63°C (145°F) TCC (tested)

FLAMMABLE LIMITS: Not Determined

AUTOIGNITION TEMPERATURE: Not Available

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Available

BOILING POINT: Not Available

FREEZING POINT: Not Available

POUR POINT: Not Available

THERMAL DECOMPOSITION: Not Available

SOLUBILITY IN WATER: Soluble

EVAPORATION RATE: Not Available

SPECIFIC GRAVITY: 1.026

VISCOSITY: Not Available

MOLECULAR WEIGHT: Not Available

(VOC): 113.000 g/L

OXIDIZING PROPERTIES: Not Available

10. STABILITY AND REACTIVITY**STABLE:** Yes**STABILITY:** Stable under recommended storage conditions.**CONDITIONS TO AVOID:** All sources of heat and sources of ignition.**POSSIBILITY OF HAZARDOUS REACTIONS:** Not Available**HAZARDOUS DECOMPOSITION PRODUCTS:** During combustion carbon dioxide may be formed. During combustion carbon monoxide may be formed.**INCOMPATIBLE MATERIALS:** Strong acids, Strong oxidizing agents, Strong reducing agents**11. TOXICOLOGICAL INFORMATION****ACUTE**

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Tetrahydrofurfuryl alcohol	1600 mg/kg [Rat]	5000 mg/kg [Rabbit]	
Dimethyl succinate	6892 mg/kg [Rat]	> 5000 mg/kg [Rabbit]	> 2000 mg/L [Rat] 4 h
D-limonene	4400 mg/kg [Rat]	5000 mg/kg [Rabbit]	

DERMAL LD₅₀: Not yet determined for this product**ORAL LD₅₀:** Not yet determined for this product**INHALATION LC₅₀:** Not yet determined for this product**SKIN EFFECTS:** Causes skin irritation.**CARCINOGENICITY**

Chemical Name	NTP Status	IARC Status	OSHA Status
Tetrahydrofurfuryl alcohol	Not Listed	Not Listed	Not Listed
Dimethyl succinate	Not Listed	Not Listed	Not Listed
D-limonene	Not Listed	3	Not Listed

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene)**NTP:** Not listed**OSHA:** Not listed

REPRODUCTIVE EFFECTS: CAS # 97-99-4 Reproductive toxicity - rat - Inhalation Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). Paternal Effects: Testes, epididymis, sperm duct. Paternal Effects: Prostate, seminal vesicle, Cowper's gland, accessory glands. Reproductive toxicity - rat - Skin Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

12. ECOLOGICAL INFORMATION**BIOACCUMULATION/ACCUMULATION:** Not Available

Notes: CAS # 5989-27-5: Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) - 0.72 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - 0.36 mg/l - 48 h (OECD Test Guideline 202) Toxicity to bacteria EC50 - Sludge Treatment - 3.94 mg/l (OECD Test Guideline 209); CAS # 97-99-4: Toxicity to fish LC50 - Rasbora heteromorpha - 3,400 mg/l - 48 h.

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHOD:** Dispose of in accordance with all current local, state and federal regulations.**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:**

	DOT CLASSIFICATION
UN number	-
UN proper shipping name	NOT REGULATED
Transport hazard class	-
Packing group	-
Label	-

OTHER SHIPPING INFORMATION: The NOT REGULATED classification of this material is strictly for transport within the United States.

AIR (ICAO/IATA)

SHIPPING NAME:

	IATA
UN number	UN 1993
UN proper shipping name	Flammable liquids, n.o.s. (contains tetrahydrofurfuryl alcohol)
Transport hazard class(es)	3
Packing group	III

NOTE: Shipment is not regulated by IATA in non bulk packaging when shipped within the United States.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: FIRE HAZARD, ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD

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

313 REPORTABLE INGREDIENTS: None

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Tetrahydrofurfuryl alcohol	97-99-4
D-limonene	5989-27-5

TSCA REGULATORY: All components of this product are listed, or are exempt from listing on the TSCA 8(b) inventory.

REGULATIONS

STATE REGULATIONS: CAS # 106-65-0 Pennsylvania Right-To-Know Act, New Jersey Right to Know Act, CAS # 1119-40-0 New Jersey RTK Hazardous Substance, Pennsylvania Hazardous Substance, CAS # 5989-27-5 New Jersey RTK Hazardous Substance, Pennsylvania Hazardous Substance, CAS # 97-99-4: Massachusetts Hazardous Substance, New Jersey RTK Hazardous Substance, Pennsylvania Hazardous Substance

CALIFORNIA PROPOSITION 65: None

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



Combustible
Liquid



Toxic

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Controlled Product

WHMIS CLASS: B, D

DOMESTIC SUBSTANCE LIST (INVENTORY): All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

REASON FOR ISSUE: U.S. HazCom GHS Format

APPROVED BY: Ross Balfour **TITLE:** Global Business Unit Manager

PREPARED BY: SDS Regulatory Specialist

INFORMATION CONTACT: Kathy Tylka

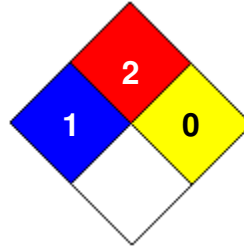
REVISION SUMMARY: This MSDS replaces the 9/12/2014 MSDS. Revised: **Section 14:** DOT (DEPARTMENT OF

TRANSPORTATION) - TECHNICAL NAME.

HMIS RATING

HEALTH		1
FLAMMABILITY		2
PHYSICAL HAZARD		0
PERSONAL PROTECTION		B

NFPA CODES



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