

SAFETY DATA SHEET

SDS 0272

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 Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	Grime-Solv	HMIS CODES	
		Health	2
		Flammability	0
		Reactivity	0
PRODUCT CODES	88436	PPI	B
CHEMICAL FAMILY	Organic		
USE	Cleaner & Degreaser		
MANUFACTURER'S NAME	The RectorSeal Corporation	EMERGENCY TELEPHONE NO.	
	2601 Spenwick Drive		Chemtrec 24 Hours
	Houston, Texas 77055 USA		(800)424-9300 USA
			(703)527-3887 International
DATE OF VALIDATION	April 1, 2015	TECHNICAL SERVICE TELEPHONE NO.	
			(800)231-3345 or (713)263-8001
DATE OF PREPARATION	April 1, 2015		

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 Section 2 -- HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Carcinogen, Target Organ Effect, Harmful by ingestion., Irritant

Target Organs

Liver, pancreas, Blood, Central nervous system, Heart, Kidney

GHS Classification

Acute toxicity, Oral (Category 5)

Skin irritation (Category 2)

Eye irritation (Category 2B)

Carcinogenicity (Category 2)

GHS Label elements, including precautionary statements

Pictogram: GHS08 Health hazard, GHS07 Exclamation mark, GHS04 Gas Cylinder

Signal Word: Warning

Hazard statement(s)

H302 - Harmful if swallowed.

H315 + H320 - Causes skin and eye irritation.

H351 - Suspected of causing cancer.

H401 - Toxic to aquatic life.

Precautionary statement(s)

P281 - Use personal protective equipment as required.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

SUMMARY OF ACUTE HAZARDS

Repeated inhalation may cause dizziness, nausea and CNS effects. May cause severe eye and skin irritation.

ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

INHALATION

Inhalation of high concentrations may cause central nervous system effects characterized by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

EYE CONTACT

Contact with eyes may cause severe irritation.

SKIN CONTACT

Irritation and drying.

INGESTION

May cause irritation of the digestive tract. May cause central nervous

system depression, characterized by excitement, followed by headache, dizziness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

SUMMARY OF CHRONIC HAZARDS

Skin irritation, contact dermatitis, and defatting.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure. or kidneys may have increased susceptibility to excessive exposure.

Section 3 -- COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Tetrachloroethylene
PERCENTAGE BY WEIGHT: 40-46
CAS NUMBER: 127-18-4
EC# : 204-825-9

INGREDIENT: Methylene Chloride
PERCENTAGE BY WEIGHT: 40-46
CAS NUMBER: 75-09-2
EC# : 200-838-9

INGREDIENT: Glycol Butyl Ether
PERCENTAGE BY WEIGHT: 1-3
CAS NUMBER: 111-76-2
EC# : 203-905-0

INGREDIENT: Isobutanol-2-amine
PERCENTAGE BY WEIGHT: 1-3
CAS NUMBER: 124-68-5
EC# : 204-709-8

Section 4 -- FIRST AID MEASURES

- If INHALED: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
If on SKIN: Immediately wash with soap and water. Remove and wash any contaminated clothing.
If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.
If SWALLOWED: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Section 5 -- FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Foam, dry chemical, CO2, or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece breathing apparatus and full body protective clothing. Hazardous decomposition products possible (see Section 10). Evacuate area. Dike area as run-off may create additional environmental contamination.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Aerosol cans are under pressure - exposure to temperatures above 120F can cause bursting or "rocketing" of cans.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use absorbent materials to prevent footing hazard and to contain. Ventilate area with forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Shake well before using. Keep away from heat and open flames. Prolonged exposure to direct sunshine or storage above 120 F may cause can to burst. Do not puncture or incinerate can. OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions.

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 Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT UNITS

Tetrachloroethylene

ACGIH TLV 50 ppm

OSHA PEL 25 ppm

 Methylene Chloride

ACGIH TLV 50 ppm

OSHA PEL 25 ppm

OSHA STEL 125 ppm

 Glycol Butyl Ether

ACGIH TLV 25 ppm

OSHA PEL 25 ppm

 Isobutanol-2-amine

ACGIH TLV N/D

OSHA PEL N/D

 Nitrous Oxide

ACGIH TLV 50 ppm

OSHA PEL N/D

 RESPIRATORY PROTECTION (SPECIFY TYPE): In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirator.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: Explosion proof

MECHANICAL (GENERAL): Acceptable

OTHER: N/A

PROTECTIVE GLOVES: Wear rubber gloves.

EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical resistant coveralls recommended.

WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

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 Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 104 F (40 C)@ 760mm Hg

SPECIFIC GRAVITY (H2O = 1): 1.32

VAPOR PRESSURE (mm Hg): 350 mm HG @ 20 C

MELTING POINT: N/A

VAPOR DENSITY (AIR = 1): 2.9

EVAPORATION RATE (ETHYL ACETATE = 1): >1

APPEARANCE/ODOR: Clear Liquid / Mild Odor

SOLUBILITY IN WATER: Insoluble

AEROSOL FLAME EXTENSION: Negative

FLASH POINT: None

LOWER EXPLOSION LIMIT: N/D

UPPER EXPLOSION LIMIT: N/D

VOLATILE ORGANIC COMPOUNDS(VOC)Content

(Theoretical Percentage By Weight): >6% or (60 g/L)

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 Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Do not store in temperatures above 120 F.

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizers, acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO, and fragmented hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur.

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 Section 11 -- TOXICOLOGY INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Methylene chloride has been shown to cause cancer in certain laboratory animals. Risk to your health depends on level and duration of exposure. IARC: 2A - Group 2A: Probably carcinogenic to humans (Tetrachloroethylene) NTP: Reasonably anticipated to be a human carcinogen (Tetrachloroethylene)

 TOXICOLOGY DATA

Ingredient Name

Tetrachloroethylene

Oral-Rat LD50:2629 mg/kg
 Inhalation-Rat LC50:34,200 mg/m3/8H

Methylene Chloride

Oral-Rat LD50:1600 mg/kg
 Inhalation-Rat LC50:88,000 mg/m3/30M

Glycol Butyl Ether

Oral-Rat LD50:470 mg/kg
 Inhalation-Rat LC50:2900 mg/m3

Isobutanol-2-amine

Oral-Rat LD50:2900 mg/kg
 Inhalation-Rat LC50:N/D

Nitrous Oxide

Oral-Rat LD50:N/D
 Inhalation-Rat LC50:160 mg/m3/6H

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 Section 12 -- Ecological Information

ECOLOGICAL DATA

Ingredient Name

Tetrachloroethylene

Food Chain Concentration Potential	None
WATERFOWL TOXICITY	N/A
BOD	None
AQUATIC TOXICITY	N/A

Methylene Chloride

Food Chain Concentration Potential	None
WATERFOWL TOXICITY	N/A
BOD	N/A
AQUATIC TOXICITY	N/A

Glycol Butyl Ether

Food Chain Concentration Potential	None
WATERFOWL TOXICITY	N/A
BOD	26%
AQUATIC TOXICITY	1000 ppm/24 hr/brine shrimp/TLm

Isobutanol-2-amine

Food Chain Concentration Potential	N/A
WATERFOWL TOXICITY	N/A
BOD	N/A
AQUATIC TOXICITY	N/A

Nitrous Oxide

Food Chain Concentration Potential	None
WATERFOWL TOXICITY	None
BOD	None
AQUATIC TOXICITY	None

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 Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Aerosols

Disposal Method: Empty containers can be disposed of in trash. Full containers should be depressurized to separate liquid phase. The liquid

phase is considered a U210 and U080 hazardous waste and should be incinerated. Dispose of all liquid waste in accordance with all local, state and federal regulations.

Section 14 -- TRANSPORTATION INFORMATION

DOT: UN1950, Aerosols, Class 2.2, ERG#126
OCEAN (IMDG): UN1950, Aerosols, Class 2.2, LTD-QTY, EMS-No: F-A, S-A
AIR (IATA): UN1950, Aerosols, Class 2.2, ERG#126

Section 15 -- REGULATORY INFORMATION

REGULATORY DATA

Ingredient Name

Tetrachloroethylene		
SARA 313	Yes	
TSCA Inventory	Yes	
CERCLA RQ	100 lbs.	
RCRA Code	U210	
Methylene Chloride		
SARA 313	Yes	
TSCA Inventory	Yes	
CERCLA RQ	1000 lbs.	
RCRA Code	U080	
Glycol Butyl Ether		
SARA 313	No	
TSCA Inventory	Yes	
CERCLA RQ	N/A	
RCRA Code	N/A	
Isobutanol-2-amine		
SARA 313	No	
TSCA Inventory	Yes	
CERCLA RQ	N/A	
RCRA Code	N/A	
Nitrous Oxide		
SARA 313	No	
TSCA Inventory	Yes	
CERCLA RQ	N/A	
RCRA Code	N/A	

CALIFORNIA PROPOSITION 65

This product contains tetrachloroethylene and methylene chloride known to the state of California to cause cancer and/or birth defects or reproductive harm.

Section 16 -- OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001

MATERIAL SAFETY DATA SHEET

MSDS 0272

Section 1 -- PRODUCT AND COMPANY

IDENTIFICATION

		HMIS CODES	
PRODUCT NAME	Grime-Solv	Health	2
		Flammability	0
		Reactivity	0
PRODUCT CODES	88436	PPI	B
CHEMICAL FAMILY	Organic		
USE	Cleaner & Degreaser		
MANUFACTURER'S NAME	The RectorSeal Corporation	EMERGENCY TELEPHONE NO.	Chemtrec 24 Hours
	2601 Spenwick Drive		(800) 424-9300
	Houston, Texas 77055 USA		
VALIDATION DATE	August 14, 2006	TECHNICAL SERVICE TELEPHONE NO.	(800) 231-3345
REVISION DATE	August 14, 2006		

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS
40-46	127-18-4	Tetrachloroethylene	
		ACGIH TLV	50 ppm
		OSHA PEL	25 ppm
		OSHA STEL	200 ppm
40-46	75-09-2	Methylene Chloride	
		ACGIH TLV	50 ppm
		OSHA PEL	25 ppm
		OSHA STEL	125 ppm
1-3	111-76-2	Glycol Butyl Ether	
		ACGIH TLV	25 ppm
		OSHA PEL	25 ppm
1-3	124-68-5	Isobutanol-2-amine	
		ACGIH TLV	N/D
		OSHA PEL	N/D
1-3	10024-97-2	Nitrous Oxide	
		ACGIH TLV	50 ppm
		OSHA PEL	N/D

Section 3 -- HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS

Repeated inhalation may cause dizziness, nausea and CNS effects. May cause severe eye and skin irritation.

ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

INHALATION

Inhalation of high concentrations may cause central nervous system effects characterized by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

EYE CONTACT

Contact with eyes may cause severe irritation.

SKIN CONTACT

Irritation and drying.

INGESTION

May cause irritation of the digestive tract. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

SUMMARY OF CHRONIC HAZARDS

Skin irritation, contact dermatitis, and defatting.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

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Section 4 -- FIRST AID MEASURES

If INHALED: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

If on SKIN: Immediately wash with soap and water. Remove and wash any contaminated clothing.

If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.

If SWALLOWED: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

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Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT

LEL

UEL

None

N/D

N/D

Negative Flame Extension, (NFPA) Level 1 Aerosol

EXTINGUISHING MEDIA

Foam, dry chemical, CO₂, or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece

breathing apparatus and full body protective clothing. Hazardous decomposition products possible (see Section 10). Evacuate area. Dike area as run-off may create additional environmental contamination.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Aerosol cans are under pressure - exposure to temperatures above 120F can cause bursting or "rocketing" of cans.

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Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use absorbent materials to prevent footing hazard and to contain. Ventilate area with forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

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Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Shake well before using. Keep away from heat and open flames. Prolonged exposure to direct sunshine or storage above 120 F may cause can to burst. Do not puncture or incinerate can. OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions.

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Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirator.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: Explosion proof

MECHANICAL (GENERAL): Acceptable

OTHER: N/A

PROTECTIVE GLOVES: Wear rubber gloves.

EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical resistant coveralls recommended.

WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

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Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 104 F (40 C) @ 760mm Hg

SPECIFIC GRAVITY (H2O = 1): 1.32

VAPOR PRESSURE (mm Hg): 350 mm HG @ 20 C

MELTING POINT: N/A

VAPOR DENSITY (AIR = 1): 2.9

EVAPORATION RATE (ETHYL ACETATE = 1): >1

APPEARANCE/ODOR: Clear Liquid / Mild Odor

SOLUBILITY IN WATER: Insoluble

VOLATILE ORGANIC COMPOUNDS (VOC) Content

(Theoretical Percentage By Weight): >95% or (950 g/L)

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 Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Do not store in temperatures above 120 F.

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizers, acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO, and fragmented hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur.
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 Section 11 -- TOXICOLOGY INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Methylene chloride has been shown to cause cancer in certain laboratory animals. Risk to your health depends on level and duration of exposure.

TOXICOLOGY DATA

Ingredient Name

Tetrachloroethylene

Oral-Rat LD50:2629 mg/kg

Inhalation-Rat LC50:34,200 mg/m3/8H

Methylene Chloride

Oral-Rat LD50:1600 mg/kg

Inhalation-Rat LC50:88,000 mg/m3/30M

Glycol Butyl Ether

Oral-Rat LD50:470 mg/kg

Inhalation-Rat LC50:2900 mg/m3

Isobutanol-2-amine

Oral-Rat LD50:2900 mg/kg

Inhalation-Rat LC50:N/D

Nitrous Oxide

Oral-Rat LD50:N/D

Inhalation-Rat LC50:160 mg/m3/6H
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 Section 12 -- Ecological Information

ECOLOGICAL DATA

Ingredient Name

Tetrachloroethylene

Food Chain Concentration Potential

None

WATERFOWL TOXICITY

N/A

BOD

None

AQUATIC TOXICITY

N/A

Methylene Chloride

Food Chain Concentration Potential

None

WATERFOWL TOXICITY

N/A

	BOD	N/A
	AQUATIC TOXICITY	N/A
Glycol Butyl Ether		
	Food Chain Concentration Potential	None
	WATERFOWL TOXICITY	N/A
	BOD	26%
	AQUATIC TOXICITY	1000 ppm/24 hr/brine shrimp/TLm
Isobutanol-2-amine		
	Food Chain Concentration Potential	N/A
	WATERFOWL TOXICITY	N/A
	BOD	N/A
	AQUATIC TOXICITY	N/A
Nitrous Oxide		
	Food Chain Concentration Potential	None
	WATERFOWL TOXICITY	None
	BOD	None
	AQUATIC TOXICITY	None

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Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Aerosols

Disposal Method: Empty containers can be disposed of in trash. Full containers should be depressurized to separate liquid phase. The liquid phase is considered a U210 and U080 hazardous waste and should be incinerated. Dispose of all liquid waste in accordance with all local, state and federal regulations.

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Section 14 -- TRANSPORTATION INFORMATION

DOT: Aerosols, Class 2.2, UN 1950, ERG#126
OCEAN (IMDG): Aerosols, Class 2.2, UN 1950, IMDG#2102, EMS#2-13
AIR (IATA): Aerosols, Class 2.2, UN 1950, ERG#126
WHMIS (CANADA): Class A, (Class D Division 1, Subdivision B)

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Section 15 -- REGULATORY INFORMATION

REGULATORY DATA

Ingredient Name

Tetrachloroethylene		
	SARA 313	Yes
	TSCA Inventory	Yes
	CERCLA RQ	100 lbs.
	RCRA Code	U210
Methylene Chloride		
	SARA 313	Yes
	TSCA Inventory	Yes
	CERCLA RQ	1000 lbs.
	RCRA Code	U080

Glycol Butyl Ether

SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Isobutanol-2-amine

SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Nitrous Oxide

SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

CALIFORNIA PROPOSITION 65

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