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MATERIAL SAFETY DATA SHEET

1. PRODUCT and COMPANY IDENTIFICATION

Manufacturer

Selena USA, Inc. 21715 Beck Drive Elkhart, Indiana 46516

Non Emergency Information

Telephone: (574) 523-0400

Emergency Information

Transportation Emergency Telephone: CHEMTREC 1-800-424-9300. The product listed below is registered by the

manufacturer, SELENA USA, INC.

International Transportation Emergency: CHEMTREC (703) 527-3887

Product Name: TYTAN® Cleaner

Chemical Name: Acetone in aerosol container

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3. HAZARDS INDENTIFICATION

Physical Hazards

ATTENTION! Aerosol. Flammable gas and liquid. Container is pressurized and storing temperature should not exceed 120°F (49°C) in order to avoid pressure build-up and possible container rupture.

Potential Health Effects

The primary adverse health effect(s) of this material are related to an acute or chronic overexposure to Acetone. This material can be harmful or even fatal is inhaled or ingested. Therefore, adequate ventilation should be provided to avoid exceeding the exposure limits of these components (See Section 8).

Exposure Routes

Inhalation: Vapors may irritate mucous membranes and upper airways. Extensive overexposure to solvent may cause

light headedness, headaches, or lethargy and physiological injury. Exposure to extremely high vapor

concentrations can cause death.

Skin Contact: May cause localized irritation, reddening and/or swelling. Prolonged or repeated exposure may lead to

sensitization blistering, and/or dermatitis.

Eye Contact: May irritate eyes causing pain, lacrimation and general inflammation.

Ingestion: May cause irritation of mucous membranes in oral cavity and in digestive system.

The medical conditions, if any that may deteriorate through the contact with product are not known.

4. FIRST AID MEASURES

Inhalation: If breathing difficulty is experienced, move to a fresh air place. If necessary, provide oxygen or artificial

respiration by trained personnel and obtain medical attention.



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Skin Contact: Remove by washing affected area thoroughly with soap and water. Apply a delicate skin cream if irritation

develops. If symptoms persist, in case of redness seek medical attention.

Eye Contact: Bath eye immediately with a large amount of water for at least 15 minutes. See medical attention immediately.

Ingestion: DO NOT INDUCE VOMITING! Drink 1- 2 glasses of water or milk. Do not give anything orally to an unconscious

person. Contact a physician immediately.

Caution: The long-term contact with the skin may cause non carcinogenic dermatitis.

5. FIRE FIGHTING MEASURES

Flash Point: -4♥ (-20℃) for acetone

Flammable Limits: Acetone Propane/Butane

Lower Explosive Limit 2.6% 1.5% Upper Explosive Limit 13% 10%

High temperatures will raise the pressure in the container, which may cause container rupture.

Extinguishing media: CO2, dry chemical foam, halon 1211, normal foam, water spray, if a large quantity is used.

Special Fire-fighting Procedures: Wear self-contained breathing apparatus (SCBA) to protect against inhalation of smoke and toxic decomposition by-products. Flammable gases and liquids can migrate down (gas has four times the density of air). Neutralize through controlled combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation and wear recommended protective clothing (face protection,

protective clothes and gloves. Vapors can accumulate in low areas. Do not smoke and avoid

ignition from sparking.

Environmental Precautions: Before disposing of containers, relieve container of any remaining foam and pressure. Dispose of

empty containers as pressurized containers. Clean out contaminated area.

Clean-up Methods: Use an absorbent material such as sawdust or vermiculite.

7. HANDLING AND STORAGE

Handling: Warning Flammable Contents! Contents are under pressure. Keep away from heat, open flame

and all sources of ignition. Do not pierce containers. Do not mix with other chemicals.

Storage: Store in a cool, dry place. Recommended storage temperature is between 40°F to 90°F (4.4°C to

25.5°C). Do not store above 120°F (49°C) will short en shelf life. Protect containers from heat. Contents are under pressure, do not pierce the containers. Protect from freezing. Keep away

from food, drinks, animal food. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Read all product instructions before using. Personal protective equipment should include safety eye wear, chemical resistant gloves, and long sleeve work clothes. Adequate ventilation should used to avoid exceeding recommended vapor level guidelines. If vapor levels are expected to exceed these guidelines, use NIOSH/MSHA approved, positive pressure supplied air respiratory apparatus (SCBA). Employ good personal hygiene, wash thoroughly after each use.

Exposure Guidelines	OSHA	ACGIH
Acetone	750 ppm	1,000 ppm TWA
Butane (Butane)	10,000 ppm	2,500 ppm TWA
Propane (Propane)	10,000 ppm	2,500 ppm TWA
Isobutane (Isobutane)	10,000 ppm	2,500 ppm TWA

None of the components in this product are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Thin liquid Appearance: Clear Color: Clear

Odor: Characteristic smell of Acetone.

Specific Gravity: Approximately 0.79 g/cm³ (H20 = 1)

Boiling Point: 35.6F (2°C) acetone Flash Point: -4F (-20°C) for acetone

Self-Flammability: Extremely flammable (propane/butane/isobutane)

Auto-Flammability: over 1004°F (540°C)

pH: 5 - 6

Vapor Pressure: In the pressurized container the vapor pressure exceeds 500 kPa. After spraying, the vapor

pressure is 233 kPa (20℃)

Solubility in Water: Soluble VOC 6.18 lb/gal

Explosion data: Acetone Propane/Butane

a) lower 2.6 1.5 b) upper 13 10

10. STABILITY AND REACTIVITY

This product is stable in normal storing conditions. Avoid storing temperatures exceeding 120°F (50°C). Protect against mechanical shocks. Avoid heat and moisture. Strongly reacts with substances such as oxidizing agents. Dangerous decomposition product is peroxide. Avoid contact with oxidizing agent, sparks, open flame, ignition sources.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Short term oral toxicity. LD $_{50} = 5800 \text{ mg/kg}$ (rat).

Skin contact: LD $_{50}$ = 20000 mg/kg (rat)

Inhalation: LD $_{50} = 0.76 \text{ mg/l} \text{ (rat } -4 \text{ hours inhalation)}.$

Irritating action: Irritates eyes, contact with eyes may cause cornea damage.

Allergies: Prolonged contact with skin may cause an allergic reaction. Prolonged toxicity close to acute and chronic vapor inspiration may result in irritation of airways, mucous membranes causing cough,

chronic vapor inspiration may result in irritation or airways, mucous membranes causing cougn, breathing difficulties, and headache. Symptoms may appear with delay. Prolonged skin contact

may cause drying and scouring reaction.

Additional toxicological

Information: None

12. ECOLOGICAL INFORMATION

Biodegradation: Type Aerobic inoculum: domestic savage, not adapted.

84% after 20 days. BOD5 = 1.85 g/g

Chemical degradation: COD = 2.07 g/g
Bioaccumulation: Not Established
Agility: Not Established

Toxicity influence on

Organisms: For fish: Limnea macrochirus CL_{50:} 8300 mg/l/96 hr

Toxicity in water: For daphnia: Daphnia magna UE_{50:} 12600 - 12700 mg/l/48 hr

Other toxicity: The highest permissible toxic concentration:

Toxicity for algae: Scenedesmus quadricauda KI5: 7500 mg/l/8 d Toxicity for bacteria: Macrocystis aeruginosa UE5: 530 mg/l/8 d Pseudomonas putida UE5: 1700 mg/l/16 hr

13. DISPOSAL CONSIDERATIONS

Before disposing of containers, relieve container of contents and pressure. Dispose of containers in accordance with all applicable guidelines and regulations. Avoid discharge to natural waters.

14. TRANSPORTATION INFORMATION

Shipping Information

Containers Less than 1,000 cu. cm. (1 litre) i.e. 12 oz.

DOT (Ground): Aerosol, Consumer Commodity, ORM-D, Limited Quantity



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Air: Aerosols, Class 2.1 UN 1950 (Flammable Gas Label)

Water: Aerosols, Class 2.1 UN 1950 (Flammable Gas Label)

Exceptions: N/A

Note: Emergency Response Guide Number – Consumer Commodity #171

15. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA) Designated Substances List (DSL):

All ingredients are listed on the TSCA inventory, as well as the Canadian Designated Substances List. This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

SARA Title III:

Contains no materials which are subject to the reporting requirements of SARA Title III.

Proposition 65:

Based on information currently available, this product is not known to contain detectable amounts of any chemicals currently listed under California Proposition 65.

16. OTHER

NFPA: Fire 3; Health 2; Reactivity 1

HMIS: Flammability 3; Health 2; Reactivity 1

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