Material Safety Data Sheet

1. Product and company identification

Product name : Aramsco Ram-Tack Spray Adhesive #57002

Product code : A06639 **Product use** : Aerosol. Adhesive.

Supplier/Manufacturer : ARAMSCO
1480 Grandview Avenue
Thorofare, NJ 08086

Telephone number : 800-767-6933

D.O.T. Emergency phone : CHEMTREC: 800-424-9300

Date of issue : 6/24/13 **Date of previous issue** : 1st Issue

2. Hazards identification

Emergency overview **HMIS: Section 15**

Signal word : DANGER

Hazard statements : EXTREMELY FLAMMABLE AEROSOL. HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL. CONTENTS UNDER PRESSURE.

Potential Health Effects : See section 11 for more detailed information on health effects and symptoms.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Eyes: Contact may cause eye irritation.

Skin: May cause skin dryness and irritation.

Ingestion: Aspiration hazard if swallowed. Can enter lungs and cause damage.

Inhalation: Harmful by inhalation. May cause irritation of respiratory tract, coughing, shortness of breath. chemical pneumonitis

Chronic effects : May cause target organ damage, based on animal data. Prolonged skin contact may cause dermatitis with drying and cracking of skin.

Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

Target organs : May cause damage to the following organs: gastrointestinal tract, upper respiratory tract, skin, eyes.

See toxicological information (Section 11)

3. Composition/information on ingredients

Name	CAS number	%
propane	74-98-6	10 -30
acetone	67-64-1	10 -30
Butane	106-97-8	10 - 30
Heptane, branched, cyclic and linear	426260-76-6	5 - 15
methyl acetate	79-20-9	1 - 10
heptane	142-82-5	1 -10

4. First aid measures

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, get medical attention.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation persists, get medical attention.

4. First aid measures

Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product : Extremely flammable. In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed.

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Empty containers retain product residue and can be hazardous.

Storage : Do not store above the following temperature: 48.889°C (120°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Ingredient	Exposure limits
propane	**OSHA PEL 1989 (United States, 3/1989).** TWA: 1000 ppm 8 hour(s). TWA: 1800 mg/m³ 8 hour(s). **NIOSH REL (United States, 6/2009).** TWA: 1000 ppm 10 hour(s). TWA: 1800 mg/m³ 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 1000 ppm 8 hour(s). TWA: 1800 mg/m³ 8 hour(s). **ACGIH TLV (United States, 2/2010).** TWA: 1000 ppm 8 hour(s).
acetone	**ACGIH TLV (United States, 2/2010).** TWA: 500 ppm 8 hour(s). TWA: 1188 mg/m³ 8 hour(s). STEL: 750 ppm 15 minute(s). STEL: 1782 mg/m³ 15 minute(s). **OSHA PEL 1989 (United States, 3/1989).** TWA: 750 ppm 8 hour(s). TWA: 1800 mg/m³ 8 hour(s). STEL: 1000 ppm 15 minute(s). STEL: 2400 mg/m³ 15 minute(s). **NIOSH REL (United States, 6/2009).** TWA: 250 ppm 10 hour(s). TWA: 590 mg/m³ 10 hour(s). **OSHA PEL (United States, 6/2010).** TWA: 1000 ppm 8 hour(s). TWA: 2400 mg/m³ 8 hour(s).
Butane	**OSHA PEL 1989 (United States, 3/1989).** TWA: 800 ppm 8 hour(s). TWA: 1900 mg/m³ 8 hour(s). **NIOSH REL (United States, 6/2009).** TWA: 800 ppm 10 hour(s). TWA: 1900 mg/m³ 10 hour(s). **ACGIH TLV (United States, 2/2010).** TWA: 1000 ppm 8 hour(s).
Heptane, branched, cyclic and linear	**ACGIH TLV (United States, 2/2010).** TWA: 400 ppm 8 hour(s). TWA: 1640 mg/m³ 8 hour(s). STEL: 500 ppm 15 minute(s). STEL: 2050 mg/m³ 15 minute(s).
methyl acetate	**ACGIH TLV (United States, 2/2010).** TWA: 200 ppm 8 hour(s). TWA: 606 mg/m³ 8 hour(s). STEL: 250 ppm 15 minute(s). STEL: 757 mg/m³ 15 minute(s). **OSHA PEL 1989 (United States, 3/1989).** TWA: 200 ppm 8 hour(s). TWA: 610 mg/m³ 8 hour(s). STEL: 250 ppm 15 minute(s). STEL: 760 mg/m³ 15 minute(s). **NIOSH REL (United States, 6/2009).** TWA: 200 ppm 10 hour(s). TWA: 610 mg/m³ 10 hour(s). STEL: 250 ppm 15 minute(s). STEL: 760 mg/m³ 15 minute(s). **OSHA PEL (United States, 6/2010).** TWA: 200 ppm 8 hour(s). TWA: 610 mg/m³ 8 hour(s).
heptane	**ACGIH TLV (United States, 2/2010).** TWA: 400 ppm 8 hour(s). TWA: 1640 mg/m³ 8 hour(s). STEL: 500 ppm 15 minute(s). STEL: 2050 mg/m³ 15 minute(s). **OSHA PEL 1989 (United States, 3/1989).** TWA: 400 ppm 8 hour(s). TWA: 1600 mg/m³ 8 hour(s). STEL: 500 ppm 15 minute(s). STEL: 2000 mg/m³ 15 minute(s).

8. Exposure controls/personal protection

	NIOSH REL (United States, 6/2009). TWA: 85 ppm 10 hour(s). TWA: 350 mg/m³ 10 hour(s). CEIL: 440 ppm 15 minute(s). CEIL: 1800 mg/m³ 15 minute(s). **OSHA PEL (United States, 6/2010).** TWA: 500 ppm 8 hour(s). TWA: 2000 mg/m³ 8 hour(s).

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.

Personal protection **HMIS: Section 15**

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. Recommended: Safety glasses.

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. Recommended: Gloves

Personal protective equipment

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.

9. Physical and chemical properties

Physical state : Aerosol product Contains gas under pressure.

Color : Opaque. White.

Relative density : 0.84

Solubility : Insoluble in the following materials: cold water and hot water.

VOC (Consumer) : 53.2 % (w/w) 3.73 lbs/gal (447 g/l)

10. Stability and reactivity

Chemical stability : The product is stable.

Conditions to avoid : Do not expose to heat or store at temperatures above 120 °F.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m3	4 hours
methyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
heptane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	103 g/m3	4 hours
Heptane, branched, cyclic and linear	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
acetone	LD50 Oral	Rat	5800 mg/kg	-

11. Toxicological information

Chronic toxicity

Carcinogenicity

12. Ecological information

Ecotoxicity : Not determined.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
methyl acetate	Acute LC50 320000 ug/L Fresh water	Fish - Pimephales promelas - 28 to 32 days - 17.5 mm - 0.087 g	96 hours
heptane	Acute LC50 375000 ug/L Fresh water	Fish - Oreochromis mossambicus - 99 mm - 10 g	96 hours
acetone	Acute EC50 5600000 to 10000000 ug/L Fresh water	Algae - Selenastrum sp.	72 hours
	Acute EC50 20.565 mg/L Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 6000000 ug/L Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 10000 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 >100000 ug/L Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g	96 hours
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate - 6 to 24 hours	21 days

13. Disposal considerations

Waste disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Waste classification :

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not available.	Consumer commodity Limited quantity	ORM-D	-		-
IMDG Class	UN1950	AEROSOLS, flammable	2.1	-		-

PG* : Packing group

15. Regulatory information

United States

SARA Title III : **SARA 302/304/311/312 hazardous chemicals**: acetone; heptane; methyl acetate; Butane; propane

SARA 302/304/311/312 extremely hazardous substances: No products were found.

US INVENTORY (TSCA) : All components are listed or exempted.

WARNING: This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Hazardous Material Information System (U.S.A.) :

15. Regulatory information

Health	2	**Flammability**	3	**Reactivity**	0

National Fire Protection Association (U.S.A.) :

Health	2	**Flammability**	3	**Instability/Reactivity**	0	**Special**	

Canada

WHMIS (Classification) : Not determined.

WHMIS (Pictograms) :

CANADA INVENTORY (DSL) : Not determined

16. Other information

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.