



Safety Data Sheet

Issuing Date 11-Aug-2014

Revision Date 11-May-2019

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name TakeOff Adhesive Remover

Other means of identification

Product Code PC105

UN-No UN3295

Recommended use of the chemical and restrictions on use

Recommended Use Technical cleaning solvent.

Details of the supplier of the safety data sheet

Manufacturer Address

TakeOff Adhesive Remover
24307 Magic Mountain
Pkwy #257
Valencia, CA 91355
USA

Emergency Telephone Number

Company Phone Number

+1-661-347-6436

Emergency Telephone Number

Poison Control Center USA 1-800-222-1222

Poison Control Ontario CAN 1-416-813-5900

Poison Control MEX dial 066

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable Liquid and vapor	Category 3

Label Elements

EMERGENCY OVERVIEW

DANGER

Hazard statements

May be fatal if swallowed and enters airways

Causes skin irritation

Causes serious eye irritation

May cause drowsiness or dizziness

May cause an allergic skin reaction

Very toxic to aquatic life with long lasting effects

Flammable liquid and vapor

**Appearance** Clear**Physical State** Liquid**Odor** Characteristic**Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Use only in a well-ventilated area
 Wear eye/face protection
 Wear protective gloves
 Avoid breathing vapors or mists
 Take precautionary measures against static discharge
 Avoid release to the environment

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing if eye irritation persists: Get medical advice/attention
 IF ON SKIN: Rinse exposed skin with plenty of water. If skin irritation occurs: get medical advice/attention.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Get medical advice/attention if you feel unwell.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.
 In case of fire: Use CO₂, dry chemical, ABC fire extinguisher, or foam for extinction

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local regulation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
D-Limonene	5989-27-5	10 - 30
Isoparaffinic Hydrocarbon	64742-48-9	30 - 60
Propylene glycol propyl ether	1569-01-3	30 - 60

4. FIRST AID MEASURES

FIRST AID MEASURES

Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, call a physician.
Skin contact	IF ON SKIN: Wash with plenty of water, If skin irritation occurs: Get medical attention.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.
Protection of First-aiders	Use personal protective equipment.

Most important symptoms and effects, both acute and delayed

Symptoms Irritation or pain in contact with skin or eyes. Skin irritation, allergic reaction.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing media</u>	Dry chemical. Foam. Carbon dioxide. Water. Class ABC/BC fire extinguisher.
Unsuitable extinguishing media	None identified.
<u>Specific hazards arising from the chemical</u>	Discarded towels or wipes soaked with solvent may smolder if not properly contained.
Hazardous combustion products	Carbon oxides.
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	Yes.
<u>Protective equipment and precautions for firefighters</u>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing.
For emergency responders	Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions	Prevent release to surface water.
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Methods and material for containment and cleaning up

Methods for Containment	Dike to collect large liquid spills. Avoid release to the environment.
Methods for Cleaning Up	Absorb with inert material and transfer to containers for later disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Wear personal protective equipment. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Take precautionary measures against static discharges.
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Conditions for safe storage, including any incompatibilities

Storage	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Manufacturer recommended exposure limit (8-hour TWA) for CAS 64742-48-9: 171 ppm, 1200 mg/m³.

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side-shields.
Skin and Body Protection Long sleeved clothing.
Respiratory Protection In case of inadequate ventilation wear respiratory protection.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid	Odor	Characteristic
Appearance	Clear	Odor threshold	Not determined
Color	Colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		Not Applicable
Melting point/freezing point		Not determined
Boiling point/boiling range	> 150 °C / > 300 °F	
Flash Point	41 °C / 105 °F	Closed cup
Evaporation Rate		Not determined
Flammability (solid, gas)		Flammable liquid and vapor
Flammability Limits in Air		Published data for d-Limonene
Upper flammability limits	6.1%	
Lower Flammability Limit	0.7%	
Vapor pressure	1.5	mm Hg
Vapor Density	>1	(air = 1)
Specific Gravity	0.8	
Water Solubility	Partially soluble	
Solubility in other solvents		Not determined
Partition coefficient		Not Applicable
Autoignition Temperature		Not determined
Decomposition temperature		Not determined
Kinematic viscosity	1.6 cps	@ 25 °C
Dynamic viscosity		Not determined
Explosive Properties	None	
Oxidizing Properties	None	

Other Information**10. STABILITY AND REACTIVITY****Reactivity**

Not reactive

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.**Conditions to Avoid**

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

None identified.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Inhalation May cause drowsiness and dizziness.

Eye contact Irritating to eyes.

Skin contact Irritating to skin. May cause sensitization by skin contact.

Ingestion Potential for aspiration if swallowed.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
D-Limonene 5989-27-5	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Isoparaffinic Hydrocarbon 64742-48-9	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	n/a
Propylene glycol propyl ether 1569-01-3	= 2490 mg/kg (Rat) = 2504 mg/kg (Rat)	= 3550 mg/kg (Rabbit)	n/a

Information on toxicological effects**Symptoms** Swelling/redness in contact with skin or eyes.**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Skin corrosion/irritation Irritating to skin.

Serious eye damage/eye irritation Irritating to eyes.

Sensitization Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

Mutagenic Effects No known hazard.

Carcinogenicity Contains no listed human carcinogens at greater than 0.1%.

Reproductive Toxicity No known hazard.

Developmental Toxicity No known hazard.

Teratogenic No known hazard.

STOT - single exposure Inhalation of vapors may cause dizziness and drowsiness.

STOT - repeated exposure No known hazard.

Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity-Product Information Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
D-Limonene 5989-27-5		LC50= 35 mg/L Oncorhynchus mykiss 96 h LC50 0.619 - 0.796 mg/L Pimephales promelas 96 h		
Isoparaffinic Hydrocarbon		LC50= 2200 mg/L Pimephales promelas 96 h		

Persistence and degradability

No data available.

Bioaccumulation/Accumulation

d-Limonene BCF: > 500

Mobility

After release, disperses into the air.

Other Adverse Effects

None identified

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste Disposal Method** Dispose of in accordance with local regulations.**Contaminated Packaging** Dispose of in accordance with local regulations.**US EPA Waste Number** D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
D-Limonene 5989-27-5	Toxic

14. TRANSPORT INFORMATION**DOT**

UN-No UN3295
Proper Shipping Name Hydrocarbons, Liquid, N.O.S.
Hazard Class 3
Packing Group III
Special Provisions Refer to published regulation.

IATA

UN-No UN3295
Proper Shipping Name Hydrocarbons, Liquid, N.O.S.
Hazard Class 3
Packing Group III
Special Provisions Refer to published regulation.

IMDG / IMO

UN-No UN3295

Proper Shipping Name	Hydrocarbons, Liquid, N.O.S.
Hazard Class	3
Packing Group	III
Special Provisions	Refer to the current IMDG regulation.
Marine Pollutant	Yes
Description	d-Limonene

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
EINECS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

U.S. State Right-to-Know Regulations

16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 2	Instability 0	Physical and Chemical Hazards n/a
HMIS	Health Hazard 1	Flammability 2	Physical hazards 0	Personal Precautions B

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Revision Note

Updated format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS