

## Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)


Printing date: 05/13/2016

Revision: 05/13/2016

### 1 Identification

- **Product identifier**
- **Trade name:** Tar-Get
- **Product code:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Asphalt and Tar Cleaner
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
DYNACCO, INC.  
17461 147th ST SE (Physical)  
PO Box 27 (Mailing)  
Monroe WA 98272 USA  
Tel: 360-794-8974
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Flam. Liq. 3 H226 Flammable liquid and vapor.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**  
  
GHS02 GHS07 GHS08
- **Signal word:** Danger
- **Hazard statements:**  
H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P261 Avoid breathing mist, vapors, or spray.  
P264 Wash thoroughly after handling.

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- P280 Wear protective gloves/protective clothing/eye protection.
- P240 Ground/bond container and receiving equipment.
- P233 Keep container tightly closed.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.
- P363 Wash contaminated clothing before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P331 Do NOT induce vomiting.
- P405 Store locked up.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

5989-27-5	d-Limonene <ul style="list-style-type: none"> <li> Flam. Liq. 3, H226</li> <li> Asp. Tox. 1, H304</li> <li> Skin Irrit. 2, H315; Skin Sens. 1, H317 Eye Irrit. 2B, H320</li> </ul>	50-100%
66455-15-0	Alcohols, C10-14, ethoxylated <ul style="list-style-type: none"> <li> Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335</li> </ul>	<20%

· **Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
 For the wording of the listed Hazard Statements refer to section 16.

### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

- Supply fresh air; consult doctor in case of complaints.
- Provide oxygen treatment if affected person has difficulty breathing.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- In case of unconsciousness place patient stably in side position for transportation.

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- **After skin contact:**  
Immediately remove any clothing soiled by the product.  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation or rash occurs: Get medical advice/attention.
- **After eye contact:**  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
A person vomiting while lying on their back should be turned onto their side.  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:**  
Breathing difficulty  
Coughing  
Allergic reactions  
Irritant to skin and mucous membranes.  
Irritant to eyes.
- **Danger:**  
Danger of impaired breathing.  
May be fatal if swallowed and enters airways.
- **Indication of any immediate medical attention and special treatment needed:**  
If swallowed or in case of vomiting, danger of entering the lungs.  
Medical supervision for at least 48 hours.  
If necessary oxygen respiration treatment.  
Later observation for pneumonia and pulmonary edema.  
Contains d-Limonene. May produce an allergic reaction.  
Treat skin and mucous membrane with antihistamine and corticoid preparations.  
If medical advice is needed, have product container or label at hand.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Foam  
Carbon dioxide  
Gaseous extinguishing agents  
Water fog / haze
- **For safety reasons unsuitable extinguishing agents:** Water stream.
- **Special hazards arising from the substance or mixture**  
Flammable liquid and vapor.  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:**  
Eliminate all ignition sources if safe to do so.  
Cool endangered containers with water fog.

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Use large quantities of foam as it is partially destroyed by the product.

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### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

**Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Prevent from spreading (e.g. by damming-in or oil barriers).

Inform respective authorities in case of seepage into water course or sewage system.

**Methods and material for containment and cleaning up:**

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

Send for recovery or disposal in suitable receptacles.

**Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

**Handling****Precautions for safe handling:**

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Avoid contact with the eyes and skin.

Use personal protective equipment as required.

**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

Flammable liquid and vapor.

**Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and receptacles:**

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidizing agents.

**Further information about storage conditions:** Keep containers tightly sealed.

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· **Specific end use(s):** No relevant information available.**8 Exposure controls/personal protection**

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:**  
Use suitable respiratory protective device when aerosol or mist is formed.  
NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:**



Safety glasses

- **Body protection:** Solvent resistant protective clothing
- **Limitation and supervision of exposure into the environment**  
No relevant information available.

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**

- **Appearance:**
  - Form:** Liquid
  - Color:** Yellow
- **Odor:** Citrus.
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.

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· <b>Melting point/Melting range:</b>	Not determined.
· <b>Boiling point/Boiling range:</b>	176 °C (349 °F)
· <b>Flash point:</b>	46 °C (115 °F)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits</b>	
<b>Lower:</b>	0.7 Vol %
<b>Upper:</b>	6.1 Vol %
· <b>Oxidizing properties:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	
<b>Relative density:</b>	0.838-0.843
<b>Vapor density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No relevant information available.

### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions:**  
Toxic fumes may be released if heated above the decomposition point.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.  
Flammable liquid and vapor.
- **Conditions to avoid:** Excessive heat.
- **Incompatible materials:** Oxidizing agents

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· **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

**11 Toxicological information**

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**5989-27-5 d-Limonene**

Oral	LD50	4400 mg/kg (rat)
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· **Primary irritant effect:**

· **On the skin:** Irritant to skin and mucous membranes.

· **On the eye:** Irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer):**

5989-27-5	d-Limonene	3
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· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· **Probable route(s) of exposure:**

Ingestion.

Inhalation.

Eye contact.

Skin contact.

· **Acute effects (acute toxicity, irritation and corrosivity):** Irritating to eyes and skin.

· **Repeated dose toxicity:** May cause sensitisation by skin contact.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

· **Carcinogenicity:** Based on available data, the classification criteria are not met.

· **Reproductive toxicity:** Based on available data, the classification criteria are not met.

· **STOT-single exposure:** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

· **Aspiration hazard:** May be fatal if swallowed and enters airways.

**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity** Toxic for aquatic organisms

· **Persistence and degradability** No relevant information available.

· **Bioaccumulative potential:** No relevant information available.

· **Mobility in soil:** No relevant information available.

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· **Additional ecological information**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

· **Other adverse effects:** No relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· **Uncleaned packagings**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

· **UN-Number**

· **DOT**

NA1993

· **ADR, IMDG, IATA**

UN2319

· **UN proper shipping name**



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

· **DOT**

COMBUSTIBLE LIQUID, N.O.S (d-Limonene)

· **ADR**

2319 TERPENE HYDROCARBONS, N.O.S. (d-limonene), ENVIRONMENTALLY HAZARDOUS

· **IMDG**

TERPENE HYDROCARBONS, N.O.S. (d-Limonene), MARINE POLLUTANT

· **IATA**

Terpene hydrocarbons, n.o.s. (d-limonene)

· **Transport hazard class(es)**

· **DOT**



· **Class**

3 Combustible liquids

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· **Label** 3



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· **ADR**




· **Class** 3 (F1) Flammable liquids  
· **Label** 3

· **IMDG**

· **Class** 3 Flammable liquids  
· **Label** 3

· **IATA**



· **Class** 3 Flammable liquids  
· **Label** 3

· **Packing group**  
· **DOT, ADR, IMDG, IATA** III

· **Environmental hazards** Product contains environmentally hazardous substances: d-Limonene  
· **Marine pollutant:** Yes (DOT)  
Symbol (fish and tree)

· **Special precautions for user** Warning: Flammable liquids  
· **Danger code (Kemler):** 30  
· **EMS Number:** F-E,S-D

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**

· **Remarks:** Transport labeling is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.

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· IATA

Limited quantity by air: 10L

**15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 304 (emergency release notification):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **IARC (International Agency for Research on Cancer):**

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· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· **Date of preparation / last revision** 05/13/2016 / -

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

· **Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))  
Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))  
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6  
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
Safety Data Sheets, Individual Manufacturers

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