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# Safety Data Sheet

## PRODUCT : Grumbacher Turpentine

01563-1005

In Compliance with OSHA Hazard Communication Standard 29 CFR 1910.1200

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name:	Grumbacher Turpentine, 568
Chemical Name:	TURPENTINE
CAS Number:	9005-90-7 & 8006-64-2
EINECS Number:	232-350-7
Relevant Identified Uses:	Solvent
Synonyms:	OIL OF TURPENTINE, SPIRITS OF TURPENTINE
Uses advised against:	None known
Company name:	Chartpak, Inc.
Address:	One River Road Leeds, MA 01053
Phone Number:	(800) 628-1910
CHEMTREC 24-Hour Emergency Phone Number:	Toll-Free (800) 494-9300; Collect (202) 483-7616
E-mail and Website:	<a href="mailto:info@chartpak.com">info@chartpak.com</a> , <a href="http://www.chartpak.com">www.chartpak.com</a>

### 2. HAZARDS IDENTIFICATION

**SIGNAL WORD: DANGER**



GHS02

GHS07

GHS08

GHS09

Classification of the substance or mixture:

FLAMMABLE LIQUID, CATEGORY 3  
ACUTE ORAL TOXICITY, CATEGORY 4  
ASPIRATION HAZARD, CATEGORY 1  
ACUTE DERMAL TOXICITY, CATEGORY 4  
SKIN IRRITANT, CATEGORY 2

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**SKIN SENSITIZER, CATEGORY 1**  
**EYE IRRITANT, CATEGORY 2A**  
**ACUTE INHALATION TOXICITY, CATEGORY 4**  
**HAZARDOUS TO THE AQUATIC ENVIRONMENT, LONG-TERM (CHRONIC), CATEGORY 2**

## HAZARD STATEMENTS

**PHYSICAL HAZARDS:** H226 - Flammable liquid and vapor

**HEALTH HAZARDS:** H302 - Harmful if swallowed  
H304 - May be fatal if swallowed and enters airways  
H312 - Harmful in contact with skin  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled

**ENVIRONMENTAL HAZARDS:** H411 - Toxic to aquatic life with long lasting effects

## PRECAUTIONARY STATEMENTS

**PREVENTION:** P210 - Keep away from heat / sparks / open flames / hot surfaces.  
No smoking  
P233 - Keep container tightly closed  
P260 - Do not breathe dust / fume / gas / mist / vapors / spray  
P264 - Wash hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear protective gloves / protective clothing / eye protection / face protection

**RESPONSE:** P301 + P310 - If swallowed: immediately call a poison center or doctor / physician  
P302 + P352 - If on skin: wash with plenty of soap and water  
P330 - RINSE MOUTH  
P331 - DO NOT INDUCE VOMITING  
P333 + P313 - If skin irritation or rash occurs: get medical advice / attention  
P362 - Take off contaminated clothing and wash before reuse

**STORAGE:** P403 + P233 + P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**DISPOSAL:** P501 - Dispose of contents / container to approved disposal facility or site

Refer to Section 15 for other regulations.

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## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

This product is a mixture of bicyclic mono-terpenic hydrocarbons, mostly alpha & beta-pinene.

EC/UPAC NAME	CAS	EINECS	WEIGHT %	SYMBOL	R PHASES	S PHASES
Alpha Pinene	80-56-8	201-291-9	70-80%	Xn	R10, R38, R43, R65	S24, S37, S62
Beta Pinene	127-91-3	204-872-5	7-10%	Xn	R10, R38, R43, R65	S24, S37, S62
Other Terpenes	N/A	N/A	20-25%	Xn, N	R10, R11, R20/21/22, R36/37/38, R50/51/53, R65	S02, S16, S20/21, S23, S24/25, S26, S29, S36/37, S46, S57, S61, S62

## 4. FIRST AID MEASURES

### AFTER INHALATION:

Supply fresh air. If symptoms are experienced, get medical attention. In case of unconsciousness, place patient stably in side position for transportation.

### AFTER INGESTION:

**DO NOT INDUCE VOMITING.** Immediately call a doctor / physician. In conscious persons, drink plenty of water to dilute ingested material. In case of involuntary vomiting, allow for clear drainage to avoid suffocation.

### AFTER SKIN CONTACT:

Remove contaminated clothing and immediately wash with plenty of soap and water. Get medical attention if irritation or skin rash occurs. Wash contaminated clothing before use. Clean contaminated footwear thoroughly before use.

### AFTER EYE CONTACT:

Immediately rinse with plenty of water. Remove contact

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lenses if present and easy to do. Hold eyelids apart and flush eyes with plenty of cool low-pressure water for at least 15 minutes. Get immediate medical attention.

## 5. FIRE FIGHTING MEASURES

<b>FLAMMABILITY OF THE PRODUCT:</b>	<b>FLAMMABLE LIQUID</b>
<b>FLASH POINT:</b>	<b>37-40°C ( @ 1 atmosphere, open cup method )</b>
<b>EXTINGUISHING MEDIA:</b>	
• <b>SUITABLE:</b>	<b>DRY CHEMICALS, CARBON DIOXIDE (CO<sub>2</sub>), FOAM, POWDER, SAND, DOLOMITE</b>
• <b>UNSUITABLE:</b>	<b>WATER WITH JET</b>
<b>HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:</b>	<b>CARBON DIOXIDE, CARBON MONOXIDE, ACRID FUMES, AND UNIDENTIFIED ORGANIC COMPOUNDS</b>
<b>SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:</b>	<b>Firefighters should wear appropriate protective equipment and self-contained breathing apparatus. Storage containers exposed to fire should be kept cool.</b>

## 6. ACCIDENTAL RELEASE MEASURES

<b>PERSON-RELATED SAFETY PRECAUTIONS:</b>	<b>Wear personal protective equipment. Evacuate unprotected persons to safe areas. Provide adequate ventilation. Remove all sources of ignition.</b>
<b>MEASURES FOR ENVIRONMENTAL PROTECTION:</b>	<b>Do not allow product to reach soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (soil, waterways, drains or sewers).</b>
<b>MEASURES FOR CLEANING / COLLECTING:</b>	
• <b>SMALL SPILL:</b>	<b>Absorb spilled liquid with inert absorbent (e. g. vermiculite, sand or similar). Collect and seal in an appropriate container properly labeled for disposal.</b>

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• **LARGE SPILL:**

Stop spill if it can be done without danger. Dike. Pump as much liquid as possible with an explosion-proof pump or a hand pump. Absorb the remaining liquid with inert absorbent. Collect and seal in an appropriate container properly labeled for disposal. Use only non-sparking tools.

• **RECOVERY:**

Liquid material may be recovered by decanting in a water tank.

## 7. HANDLING AND STORAGE

**HANDLING:**

Wear personal protective equipment. Provide adequate ventilation. Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from heat, sparks, open flames and hot surfaces.

**STORAGE:**

Requirements for storage areas and containers: Store in a cool well-ventilated place. Keep container tightly closed. All equipment including ventilation systems must be equipotential and earthed. Keep away from sources of ignition. Protect from heat and direct sunlight.

**RECOMMENDED AND UNSUITABLE MATERIALS FOR STORAGE:**

• **SUITABLE:**

Stainless steel, aluminum

• **UNSUITABLE:**

Certain plastics and elastomers may not be compatible with the product. Test or get manufacturers recommendation prior to use.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**CONTROL PARAMETERS:**

**OCCUPATIONAL EXPOSURE LIMITS:**

Long term (8 hours): 100ppm  
Short term (15 minutes): 150ppm

**BIOLOGICAL EXPOSURE LIMITS:**

NOT AVAILABLE

**DNEL:**

NOT AVAILABLE

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<b>PNEC:</b>	<b>NOT AVAILABLE</b>
<b>ENGINEERING MEASURES:</b>	<b>Provide local exhaust or general room ventilation to minimize exposure to vapors. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.</b>
<b>PERSONAL PROTECTION:</b>	
<b>EYES / FACE PROTECTION:</b>	<b>Safety goggles (standard EN 166).</b>
<b>HAND PROTECTION:</b>	<b>Protective gloves resistant to chemicals (standard EN 374-1). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.</b>
<b>BODY PROTECTION:</b>	<b>Protective work clothing</b>
<b>RESPIRATORY PROTECTION:</b>	<b>Use suitable respiratory protective device in case of insufficient ventilation.</b>
<b>GENERAL PROTECTIVE AND HYGIENIC MEASURES:</b>	<b>The usual precautionary measures are to be adhered to when handling chemicals. Take off contaminated clothing and wash before reuse.</b>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	<b>Colorless liquid at 20°C</b>
<b>ODOR:</b>	<b>Pine characteristic</b>
<b>pH:</b>	<b>Not applicable</b>
<b>ACID NUMBER:</b>	<b>Not applicable</b>
<b>MELTING / FREEZING POINT:</b>	<b>Not applicable</b>
<b>BOILING RANGE (760 mmHg):</b>	<b>157.2 - 176.7°C (315 - 350°F)</b>
<b>FLASH POINT:</b>	<b>35°C (95°F)</b>
<b>EVAPORATION RATE:</b>	<b>&lt; 1 (butyl acetate = 1)</b>
<b>FLAMMABILITY:</b>	<b>Flammable</b>
<b>UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:</b>	<b>Not available</b>
<b>VAPOR PRESSURE:</b>	<b>4 mmHg</b>
<b>VAPOR DENSITY:</b>	<b>&gt; 1 (air = 1)</b>

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<b>SPECIFIC GRAVITY:</b>	<b>0.850 - 0.855 at 15.5°C</b>
<b>WATER SOLUBILITY:</b>	<b>&lt; 1%</b>
<b>REFRACTION INDEX:</b>	<b>1.4655 - 1.4725 at 20°C</b>
<b>PARTITION COEFFICIENT N-OCTANOL / WATER (LOG VALUE):</b>	<b>Not available</b>
<b>SELF-IGNITION TEMPERATURE:</b>	<b>253°C ( 487.4°F)</b>
<b>DECOMPOSITION TEMPERATURE:</b>	<b>Not available</b>
<b>VISCOSITY:</b>	<b>Not available</b>
<b>EXPLOSIVE PROPERTIES:</b>	<b>Not available</b>
<b>OXIDIZING PROPERTIES:</b>	<b>Not available</b>
<b>DISSOCIATION CONSTANT:</b>	<b>Not available</b>
<b>STABILITY IN ORGANIC SOLVENTS AND IDENTITY OF RELEVANT DEGRADATION PRODUCTS:</b>	<b>Not available</b>

## 10. STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	<b>No decomposition if used according to specifications</b>
<b>REACTIVITY:</b>	<b>Non-reactive when in contact with air or water.</b>
<b>CONDITIONS TO AVOID:</b>	<b>Prolonged or excessive heat and/or exposure to air may cause non-hazardous decomposition and/or oxidation of the substance. Keep away from heat and sources of ignition.</b>
<b>MATERIALS TO AVOID:</b>	<b>Avoid contact with strong acids, strong bases, and strong oxidizing agents.</b>
<b>HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:</b>	<b>Thermal decomposition may generate carbon monoxide, carbon dioxide and other unidentified organic compounds.</b>

## 11. TOXICOLOGICAL INFORMATION

**Acute Inhalation Toxicity:** May cause transient irritation to the respiratory system. Exposure to high vapor concentration may cause effects similar to those of ingestion.

**Acute Dermal Toxicity:** May be absorbed through the skin. May cause sensitization by skin contact. Repeated / prolonged contact may cause mild irritation and drying (defatting) of skin.

**Ingestion:** May cause nausea, vomiting, dizziness and depression of central nervous system.

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## HUMAN HEALTH HAZARD ASSESSMENT

### Acute Toxicity - LD<sub>50</sub> (mg/kg)

COMPONENT	CAS	ORAL, RAT	DERMAL, RABBIT	INHALATION - LC <sub>60</sub>
Alpha Pinene	80-56-8	3700	2000	Not Determined
Beta Pinene	127-91-3	3700	2000	Not Determined
Other Terpenes	N/A	> 5000	> 3000	Not Determined

### OTHER DATA

COMPONENT	CAS	MUTAGENICITY	CARCINOGENICITY	REPRODUCTIVE TOXICITY: DEVELOPMENTAL TOXICITY - ORAL
Alpha Pinene	80-56-8	Negative	Not Determined	NOAEL: 250mg/kg bw/day
Beta Pinene	127-91-3	Negative	Not Available	NOAEL: 250mg/kg bw/day
Other Terpenes	N/A	Negative	Not Available	Not Available

## 12. ECOLOGICAL INFORMATION

**Marine Pollutant. Toxic to aquatic organisms.**

**Prevent contamination of soil, drains or surface water; use appropriate containment methods to avoid runoff into storm sewers, ditches that lead to waterways.**



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**ECOTOXICITY:**

**ACUTE TOXICITY: FISH** NOT AVAILABLE  
**ACUTE TOXICITY: DAPHNIA** NOT AVAILABLE  
**ACUTE TOXICITY: ALGAE** NOT AVAILABLE

**BIODEGRADABILITY:** NOT AVAILABLE

**BIOACCUMULATIVE POTENTIAL:** NOT AVAILABLE

## 13. CONSIDERATIONS ON WASTE TREATMENT AND DISPOSAL

**HAZARDOUS WASTE NUMBER (40CFR261.21):** D001

**PRODUCT:**

After prior treatment, product may be disposed of in an incinerator for special waste adhering to the regulations pertaining to the disposal of special waste. Disposal must be made according to local and national regulations.

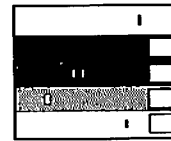
**UNCLEANSSED PACKAGING:**

Disposal must be made according to local and national regulations.

## 14. TRANSPORT INFORMATION

**CLASS 3, FLAMMABLE LIQUIDS**

**NFPA CODES:  
HEALTH - 2, FIRE - 3,  
REACTIVITY - 0**



**HMIS CODES**

### INTERNATIONAL TRANSPORTATION REGULATIONS

**PROPER SHIPPING NAME AND DESCRIPTION:**

Flammable Liquid, n.o.s., (turpentine)

**CHEMICAL NAME:**

GUM TURPENTINE, OIL OF TURPENTINE, SPIRITS OF TURPENTINE

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## LAND TRANSPORT (ADR / RID)

Jars (US D.O.T.):

CLASS:  
PACKAGING GROUP:  
JARS:  
LABELS:

ORM-D, Consumer Commodity

CLASS 3, FLAMMABLE LIQUIDS  
III  
HAZARDOUS  
ORM-D, Consumer Commodity

## INLAND WATERWAY TRANSPORT

UN NUMBER: 1993  
CLASS: 3 FLAMMABLE LIQUID  
PACKAGING GROUP: III  
LABELS: 3

## AIR TRANSPORT (IATA / ICAO)

UN NUMBER: 1993  
CLASS: 3 FLAMMABLE LIQUID  
PACKAGING GROUP: III  
LABELS: 3

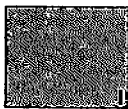
## MARINE TRANSPORT (IMDG)

UN NUMBER: 1993  
CLASS: 3 FLAMMABLE LIQUID  
PACKAGING GROUP: III  
LABELS: 3  
MARINE POLLUTANT YES (P)

## 15. REGULATORY INFORMATION

All compounds of this product are in compliance with inventory listing requirements of the U. S. Toxic Substance Control Act (TSCA) - Chemical Substance Inventory, EINECS - Europe, DSL - Canada, ENCS - Japan, AICS - Australia, IECS - China, PICCS - Philippines, and ECL - Korea.

Classification according to Directive 67/548/EEC - Annex I and Regulation (EC) N°1272/2008 - Annex VI



Xi - IRRITANT



Xn - HARMFUL

N - DANGEROUS FOR  
THE ENVIRONMENT

### RISK PHRASES:

R 10 FLAMMABLE  
R 20/21/22 HARMFUL BY INHALATION, IN CONTACT WITH SKIN, AND IF SWALLOWED.

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<b>R 36/38</b>	<b>IRRITATING TO EYES AND SKIN.</b>
<b>R 43</b>	<b>MAY CAUSE SENSITIZATION BY SKIN CONTACT.</b>
<b>R 50/53</b>	<b>TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.</b>
<b>R 65</b>	<b>HARMFUL; MAY CAUSE LUNG DAMAGE IF SWALLOWED.</b>
<b>SAFETY PHRASES:</b>	
<b>S 36/37</b>	<b>WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.</b>
<b>S 46</b>	<b>IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS SDS OR LABEL.</b>
<b>S 61</b>	<b>AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS / SAFETY DATA SHEETS.</b>
<b>S 62</b>	<b>IF SWALLOWED, DO NOT INDUCE VOMITING. SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS SDS OR LABEL.</b>

## 16. OTHER INFORMATION

Chartpak, Inc. believes that such information is accurate and reliable as of the date of this SDS, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, or completeness of the information. Chartpak, Inc. urges users receiving this information to make their own determination as to the data's suitability and completeness for their particular application.