

Gum Turpentine

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

GUM TURPENTINE Product name:

EC Number: 932-349-8 CAS number: 8006-64-2

REACH Registration number: 01-2119553060-53-XXXX **CLP Notification reference number:** 02-2119494464-29-0000

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses: Fragrance/solvent

1.2.2 Uses advised against: None

1.3 Details of the supplier of the SDS

Manufacturer/Supplier Michael Harding Art Formulas LTD

Address: Unit K Springvale Ind Est

Cwmbran

01633 484700 Telephone number:

accounts@michaelharding.co.uk

1.4 Emergency telephone number: 01633 484700 Opening Hours 08:00-16:30 Mon-Thur and 08:00-15:30 Friday

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Flam. Liq. 3 H226 Flammable liquid and vapour

Acute Tox. 4 H302 Harmful if swallowed H312 Harmful in contact with skin

H 332 Harmful if inhaled

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways

Skin Mild Irrit. 3 H315 Causes skin irritation

Eye Irrit 2A H319 Causes serious eye irritation Skin Sens. 1B

H317 May cause an allergic skin reaction **Aquatic Chronic 2** H411 Toxic to aquatic life with long lasting effects

2.1.2 Classification according to Directive 67/548/EEC

> Symbols: **Flammable** Χ'n Harmful

Dangerous for the environment

Content: **Gum turpentine**

R-phrases:

R10 Flammable

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin

R43

May cause sensitisation by skin contact
Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment R51/53

R65 Harmful: may cause lung damage if swallowed

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SECTION 2. HAZARDS IDENTIFICATION (cont.)

2.1.3 Additional information:

None 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Product identifier: Gum turpentine Index No.: 650-002-00-6

Hazard pictograms:









Danger Signal word:

Hazard statements:

Flammable liquid and vapour H226

Harmful if swallowed H302

H304 May be fatal if swallowed and enters airways

Harmful in contact with skin Causes skin irritation H312

H315

May cause an allergic skin reaction H317

Causes serious eye irritation H319

H332 Harmful if inhaled

H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician P280

P301+P310

DO NOT induce vomiting P331

P302+P353+P361: IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338: IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to

do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention P333+P313

In case of fire: Use ABC powder extinguisher. P370+P378

P501 Dispose of contents/container to combustion or in compliance with the Environmental Protection (Duty of

Care) Regulations 1991.

2.3 Other hazards

Environmental hazard: See section 12

Pressure injection: Injection of all products will cause severe internal damage if not properly treated. Substance does not meet the criteria for vPvB according to Regulation (EC) No. 1207/2006, Annex XIII

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Product identifier type	Identifier No.	Identification name	Weight % content or range	EC Number
CAS No.	8006-64-2	Turpentine,oil	90-100%	932-349-8
		IUPAC Name: Not available		

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 First Aid instructions

Inhalation: If excessive, remove to fresh air and obtain medical advice immediately Skin contact: Wash with soap and water. Remove immediately any contaminated clothing.

Flush with water for at least 15 minutes. Eye contact:

Seek medical assistance immediately. Do not induce vomiting. Ingestion: Even if the injury appears minor, seek immediate medical attention. Pressure injection:

IF ANY IRRITATION PERSISTS, SEEK MEDICAL ATTENTION

Notes for the doctor: None

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SECTION 4. FIRST AID MEASURES (cont.)

- 4.1.2 Advice:
 - (a) Immediate medical attention is required and, if delayed, effects can be expected after exposure.
 - (b) Movement of the exposed individual from the area to fresh air is recommended
 - (c) Removal of contaminated clothing and shoes from the individual is recommended (d) Personal protective equipment for first aid responders is recommended
- 4.2 Most important symptoms and effects, both acute and delayed

Acute (short term) contact can irritate the skin and eyes

Chronic (long term) if an allergic reaction occurs, low future exposure may cause itching and skin rash

4.3 Indication of immediate medical attention and special treatment needed

If symptoms persist, seek medical attention Eyewash facilities should be available

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Dry chemical powder, alcohol resistant foam or CO².

Unsuitable extinguishing media:

Water

5.2 Special hazards arising from the substance

Hazardous decomposition products: Burning generates CO, CO² and acrid smoke.

Combustible vapours heavier than air

Can form explosive mixtures with air

May react exothermically with reducing agents to release hydrogen gas.

5.3 Advice for fire-fighters

Use water to cool drums.

5.4 Additional information

Fire-fighters should wear full protective gear and use self contained breathing apparatus with a full facepiece.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
 - 6.1.1 For non-emergency personnel

Use personal protection equipment. (See section 8)

Even a small spillage will present a slipping hazard.

6.1.2 For emergency responders

No information available

6.2 Environmental precautions

Do not allow to enter drains, waterways or cellars.

- 6.3 Methods and material for containment and cleaning up
 - 6.3.1 Advice on how to contain a spill

Soak up on absorbent, inert material.

6.3.2 Advice on how to clean up a spill

Clean areas with abundant water and detergent.

6.3.3 Any other information: None

6.4 Reference to other sections

See Section 8

6.5 Additional information: None

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SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Measures to prevent fire: Prevent static build-up and discharge. Keep away from possible sources of ignition. Electrical

devices should have flame-proof motors.

Measures to prevent aeroso & dust generation: Do not pump at high pressure

Measures to protect the

environment: Keep away from drains

7.1.2 Advice on general occupational hygiene

Do not eat, drink or smoke in work areas.

Wash hands after use

Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions:

Keep tightly closed on a site suitable for flammable materials.

Ensure adequate air circulation and fume extraction in storage and working areas.

Keep under environmental temperature.

Packaging material:

Original drums, alternative lacquer lined drums or lined bulk tank under nitrogen. See technical data for suitable plastics.

Requirements for storage rooms and vessels:

Do not store in carbon steel tanks.

Hints on storage assembly:

No information available Storage class:

Further information on storage conditions: No information available

7.3 Specific end use(s)

Recommendations: None

Industrial sector specific solutions: None

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Substance: **Gum turpentine** CAS No: 8006-64-2

Engineering measures: Ensure adequate air circulation and fume extraction.

Electrical earthing and flameproof switchgear/

motors.

Control parameters: Occupational exposure limits/ No data TLV: TLV (recommended available 100 ppm

OEL(TLV)): TLV-TWA (time weighted average): TLV-STEL

100 ppm 8 hrs (short term expos.): 150 ppm 10 mins

ÌHI (inhalation hazard index):

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Electrical motors and switch gear should be flameproof See Section 7.2 Technical measures

8.2.2 Personal protection

8.2.2.1 Eye and face protection

Tightly fitting safety goggles and face protection.

8.2.2.2 Skin protection

Hand protection: Rubber/PVC gloves. Body protection: Oilproof protective clothing. Other protection: No information

available.

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (cont.)

8.2.2.3 Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. (Organic vapour mask)

8.2.2.4 Thermal hazards:

8.2.2.5 Other

Smoking forbidden.

Hygiene measures:

Avoid contact with eyes.

Will de-fat skin, frequent and long-term skin contact to be avoided. May cause skin sensitisation or occupational dermatitis in case of sensitive skin. In case of sensitive skin use barrier cream or skin moisturiser after contact. Wash hands thoroughly before breaks and at the end of the work day.

8.2.3 Environmental exposure controls:

See Section 6.2

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance:b) Odour: non viscous liquid, colourless to oily brown

turpentine No data available c) Odour threshold: d) pH: not determined

-55°C

e) Melting point / freezing point: f) Initial boiling point and boiling range: initial: 156°C ASTM D 233-13 94% max. 170°C ASTM D 233-13

34 - 38°C (tag o.c.) ASTM D 56 g) Flash point: h) Evaporation rate: <1 (Butyl acetate=1)

i) Flammability (solid, gas): j) Upper/lower flammability or explosive limits: Not applicable 0.8% - 6% volume k) Vapour pressure: 504 Pa at 20°C 3623 Pa at 50°C I) Vapour density:

No data available
0.855-0.868 g/cm³ ASTM D 233-11 at 25°C
Water solubility: <0.1%
Solvent solubility: no data available m) Relative density: n) Solubility(ies):

o) Partition coefficient: n-octanol/water: (Solubility-lipids) >250°C

p) Auto-ignition temperature: No data available q) Decomposition temperature: 1.5 cp at 25°C r) Viscosity:

s) Explosive properties: (above 40°C explosive vapour/air mixtures may be formed)

t) Oxidising properties: u) Kauri Butanol value: stable under normal storage and use conditions

71 approx.

Physical hazards

a) Explosivesb) Flammable gasesc) Flammable aerosols Not applicable Not applicable Not applicable d) Oxidising gases Not applicable e) Gases under pressure Not applicable f) Flammable liquids Flam.Liq. 3 Not applicable Not applicable g) Flammable solids h) Self-reactive substances and mixtures i) Pyrophoric liquids Not applicable j) Pyrophoric solids Not applicable k) Self-heating substances and mixtures Not applicable

I) Substances and mixtures which. In contact with water, emit flammable gases Not applicable m) Oxidising liquids Not applicable n) Oxidising solids Not applicable o) Organic peroxides p) Corrosive to metals Not applicable Not applicable

See Section 16.3

9.2 Other safety information: None

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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

May react exothermically with reducing agents to release hydrogen gas.

10.2 Chemical stability

Under normal conditions, the product is stable. Is not an oxygen donor. Is not an exigen donor.

10.3 Possibility of hazardous reactions

Burning generates CO, CO² and acrid smoke.

10.4 Conditions to avoid: No information available

10.5 Incompatible materials

Strong oxidising agents, acids, clays and mineral acids.

10.6 Hazardous decomposition products

Hazardous decomposition products are not known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Toxicokinetics, metabolism and distribution

Routes of administration:

Absorption No data available Distribution No data available Metabolism No data available Excretion No data available

11.2 Information on toxicological effects

a) Acute toxicity: Acute Tox 4: oral, dermal, inhalation

>3200 mg/kg (OECD 401) >2000 mg/kg (OECD 404). Moderate irritation (RIFM) Full strength 24 hr. under Oral LD50 oral (rat):

Dermal LD50 dermal (rabbit): occlusion (rabbit) (RIFM)

Inhalation: 13.5 mg/litre

b) Skin corrosion/irritation: Skin Mild Irrit. 3 - No data available.

c) Serious eye damage/irritation Eye Irrit. 2A - Irritant effects (RIFM) Full strength to conjunctival sac (rabbit) (TDS)

d) Respiratory or skin sensitisation: Skin Sens. 1B - No data available.

e) Mutagenicity: Ames mutagenicity: negative

In vitro:not found In vivo: not found

Based on available data, the classification criteria are not met. f) Carcinogenicity:

g) Reproductive toxicity:

Impairment of fertility: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met. Developmental toxicity: Based on available data, the classification criteria are not met.

h) STOT-single exposure: Based on available data, the classification criteria are not met i) STOT-repeated exposure: Based on available data, the classification criteria are not met

j) Aspiration hazard: The consumption of a considerable dose can cause pulmonary damage

11.3 Other

Narcosis: Based on available data, the classification criteria are not met.

Endocrine disruption potential: No data available

Irritating to eyes, skin and mucous membranes. Local effects:

All significant components FEMA listed.

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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Fish toxicity: LC-0 26 mg/l LC-50 33 mg/l LC-100 43 mg/l

LC-100 43 mg/l
Daphnia toxicity: 10-100mg/l (WAF) 24/48 hour
Algae toxicity: >100mg/l (WAF) 72 hour Eb/ErC50

Farthworm toxicity:

Plant toxicity:

No data available

No data available

Classified as toxic to aquatic organisms and may cause long term adverse effects in the aquatic

environment. See Section 16.3

12.2 Persistence and degradability

Biodegradability: Complete in 28 days

Complete in 28 days.

OECD 301E - readily biodegradable material modified screening test.

OECD 302C - inherent biodegradability modified MITI test (no. 2).

12.3 Bioaccumulative potential

No tendency

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Based on available data, the classification criteria are not met.

12.6 Other adverse effects: No information available

12.7 Other information

Accumulation:

Biomagnification:

Photochemical ozone creating potential:

Ozone depletion potential:

Global warming potential:

Waste water oxygen demand (COD):

No data available
zero stratosphere
zero
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste Class (Regulation EU No. 1357/2014)

Code No. 15 05 08 - Discarded organic chemicals consisting of or containing hazardous substances - Dangerous

Type of Waste (Regulation EU 1357/2014)

HP3 Flammable
HP5 Specific Target Organ Toxicity (STOT) Aspiration Toxicity
HP14 Ecotoxic
HP4 Irritant – skin irritation and eye damage
HP6 Acute toxicity
HP13 Sensitising

Waste Management (disposal and evaluation)

Consult authorised waste service manager on the assessment and disposal considerations in accordance with Annex 1 and 2 (Directive 2008/98/EC) As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be handled in the same way as the actual product. Otherwise it will be processed as non dangerous residue.

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SECTION 13. DISPOSAL CONSIDERATIONS (cont.)

13.1.2Waste treatment options. : Do not allow to enter drinking or waste water supplies or

13.1.3 Sewage disposal options ; soil. None – do not allow to enter sewer system

disposal No information available 13.1.4

recommendations:

13.2 Additional information: None

SECTION 14. TRANSPORT INFORMATION

UN number: 1299

IMCO No. 3133

UN proper shipping name: **Turpentine**

111 Packing group: **Hazard Class:** 3

Dangerous for the Environment: Yes

Land Transport (ADR/RID)

Transport hazard class(es): Tunnel Code : 3 D/E Dangerous for the environment Yes

Can only be transported on ADR registered vehicles with qualified drivers Special provisions:

Sea transport (IMDG Code)
Transport hazard class(es):

3 III Packing Group : Yes F-E , S-E Dangerous for the Environment : EmS Codes:

Air transport (ICAO-TI/IATA-DGR)

ransport hazard class(es): Packing Group: ш Dangerous to the Environment : Yes

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorisations and/or restrictions on use:

Authorisations: Not applicable

Restrictions on use: None

Other EU regulations

Limitations of emissions of volatile organic

compounds 1999/13/EC (VOC-guideline): 95%

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

TSCA - Turpentine is listed on the TSCA inventory 15.3

California Prop.65 - None of the Chemicals in this product are listed

Gum Turpentine



SECTION 16. OTHER INFORMATION

16.1 Legislation Related to the Safety Data Sheet: This Safety Data Sheet has been produced in accordance with Annex II-Guide to

the compilation of Safety Data sheets of Regulation (EC No.1907/2006), Regulation (EU) No. 453/2010 , Regulation (EC) No. 2015/830

16.2 Abbreviations and acronyms

ADN:

European Provisions Concerning the International Carriage of Dangerous Goods by Inland Waterway Accord europeen relative au transport international des marchandises Dangereuses par Route (European Agreement ADR:

concerinng the International Carriage of Dangerous Goods by Road)

AVV: Abfallverzeichnis-Verordnung CAS: **Chemical Abstracts Service** CFR:

Code of Federal Regulations Classification, Labelling and Packaging CLP:

COD: **Chemical Oxygen Demand** DGR: **Dangerous Goods Regulation** DPD: **Dangerous Preparations Directive**

EINECS: European Inventory of Existing Commercial Chemical Substances European Waste Catalogue

EWC: FDA: Food and Drug Administration

FEMA: Federal Emergency Management Agency,

GGVE: Gefahrgutverordnung Eisenbahn GGVS: Gefahrgutverordnung Straße Gefahrgutverordnung See GGVSee:

GHS: Globally Harmonized System (of Classification and Labelling of Chemicals)

GRAS:

Generally recognised as safe International Air Transport Association IATA: International Civil Aviation Organization ICOA

IHI: Inhalation hazard index

IMCO: Inter-Governmental Maritime Consultative Organization

IMDG: International Maritime Dangerous Goods

INCI: International Nomenclature of Cosmetic Ingredients

LC50: Lethal concentration 50%

Lethal dose 50% LD50:

MAK: Maximum Allowable Concentrations (Maximale Arbeitsplatzkonzentrationen)

MITI: Ministry of International Trade and Industry

Organisation for Economic Co-operation and Development OFCD:

OEL: Occupational exposure limit

Persistent, Bioaccumulative and Toxic PBT:

REACH: Registration, Evaluation, Authorisation and restriction of CHemicals.

Reglement International concernant le transport des marchandises Dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) RID:

RIFM: **Research Institute for Fragrance Materials** SDS: Safety Data Sheet

STEL: Short-term exposure limit Specific Target Organ Toxicity STOT:

TD: Toxic dose

TDS: Total dissolved solids Transport Index TLV: Threshold limit value

TSCA: Toxic Substances Control Act Time-weighted average TWA: VOC: **Volatile Organic Compounds** vPvB:

very Persistent, very Bioaccumulative WAF: Water-Accommodated Fractions

16.3 Key literature references and sources for data

Data for fish toxicity quoted from Hommel book for dangerous goods (based on data for nearest chemically related

substance - Dipentene)

TLV quoted from T A Luft (Germany) and MAK - list (Austria) (based on data for nearest Control parameters:

related chemical compounds (Terpenes and Terpene hydrocarbons))

16.4 Classification and procedure used to derive the classification for mixtures according to regulation (EC) 1272/2008 [CLP]

Not applicable

Safety Data Sheet **Gum Turpentine**



SECTION 16. OTHER INFORMATION (cont.)

16.5 Relevant R- and H-phrases

R-phrases:

R10 **Flammable**

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes and skin R36/38

R43 May cause sensitisation by skin contact

R51/53 R65 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

Harmful: may cause lung damage if swallowed

16.5 Relevant R- and H-phrases (cont.)

Hazard statements:

H226	Flammable liquid and vapour	
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	
H411	Toxic to aquatic life with long lasting effects	

16.6 Training advice: None

16.7 Further information

TSCA listed

This substance is not listed in Part 1, 11 and 111 of Annex 1 304/2003/EC (or its later amendments) and does not require notification for export outside of the EU

Tariff code: 380510-10-00

16.8 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 is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and is not to be considered as a warranty or quality specification. This information relates only to the material designated and may not be valid for such material used in combination with any other materials.