

1 Identification**Product identifier****Trade name:** Additive D32**Article number:** 29138-01**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the preparation:

For industrial use only

Additive

Details of the supplier of the safety data sheet**Manufacturer / Supplier:**

BLASER SWISSLUBE, Inc.

31 Hatfield Lane

Goshen, NY 10924

USA

Phone: +1 (0) 845 294 32 00

Fax : +1 (0) 845 294 31 02

Mailto: mailboxusa@blaser.com

Information department:

Product Safety Department

E-mail: sds@blaser.com

Emergency telephone number:

For advice on chemical emergencies, spillages, fires or exposures: +1 866 928 0789 (Toll free)

2 Hazard identification**Classification of the substance or mixture**

Combustible liquid.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

Label elements**GHS label elements** acc. to Hazardous Products Regulations (HPR)**Hazard pictograms****Signal word** Danger**Hazard-determining components of labeling:**

D-limonene

Hazard statements

H227 Combustible liquid.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P331 Do NOT induce vomiting.

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

P362+P364 Take off contaminated clothing and wash it before reuse.

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P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

3 Composition/Information on ingredients

Chemical characterization: Mixtures**Description:**

Mixture of the substances listed below with nonhazardous additions.

Solvent mixture with additives

Declarable components:**CAS no.**

770-35-4	1-Phenoxypropan-2-ol	>25-<50% w/w *
5989-27-5	D-limonene	>25-<50% w/w *

* Actual concentration ranges are withheld as a trade secret.

4 First aid measures

Description of first aid measures**General information:** Immediately remove any clothing soiled by the product.**After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Not applicable, as the concentrate is not volatile.

After skin contact: Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing:** Do not induce vomiting; immediately call for medical help.**Information for doctor:****Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Firefighting measures

Extinguishing media**Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.**Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

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

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Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

The product has been classified and marked in accordance with directives on hazardous materials.

Observe the general safety regulations when handling chemicals.

Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:**

Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Protect from heat and direct sunlight.

Keep receptacle tightly sealed.

Optimal storage temperature between 5°F and 104°F

Minimum shelf life: In closed, original container, at least 24 months.

Specific end use(s) No further relevant information available.**8 Exposure controls/ Personal protection****Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Respiratory Protection: Not required.**Protection of hands:**

Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves (recommended): Suitable protective gloves: Nitrile gloves, minimum thickness of 0.3 mm.**Breakthrough time of glove material:**

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Eye protection (recommended): Eye protector with side protection (framed eyeglasses) ANSI Z87.1 – 2010**Body protection (recommended):** Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Liquid
Color:	Light yellow
Odor:	like oranges
Odor threshold:	Not determined.

pH-value: Not applicable.

Change in condition:

Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	>150 °C (>302 °F) (DIN 51751 / ASTM D86)

Flash point: 66 °C (150.8 °F) (ISO 2592 / ASTM D92)

Flammability (solid, gaseous): Not applicable.
 Ignition temperature: >200 °C (>392 °F) (DIN 51794 / ASTM E659)

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: Not determined.

Explosion limits (@1013 mbar):

Lower:	0.7 Vol %
Upper:	6.4 Vol %

Oxidizing properties: Not applicable.

Density at 20 °C (68 °F): 0.94 g/cm³ (7.84 lbs/gal) (DIN 51757 / ASTM D1217)

Relative density: 0.94 @ 68°F (20°C) (DIN 51757 / ASTM D1217)

Vapor density: Not applicable.
 Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility with

Water: Insoluble.

Partition coefficient (n-octanol/water): Not determined.

Viscosity

Dynamic:	Not determined.
Kinematic at 40 °C (104 °F):	3 mm ² /s (ISO 3104 / ASTM D445)

Other information: none
 No further relevant information available.

10 Stability and reactivity

Reactivity None known if used as directed.**Chemical stability** Stable under recommended storage conditions.**Possibility of hazardous reactions** Reacts with strong acids and oxidizing agents.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.

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**Hazardous decomposition products
(in case of fire or oxidation):**
Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	3,445 mg/kg (rat)
Dermal	LD50	>4,000 mg/kg (rat)

770-35-4 1-Phenoxypropan-2-ol

Oral	LD50	2,830 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rat) (Acute Dermal Toxicity)

5989-27-5 D-limonene

Oral	LD50	4,400 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

Primary irritant effect:

on the skin: Causes skin irritation.

on the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

IARC (International Agency for Research on Cancer)

None of the ingredients is listed in groups 1, 2A, or 2B.

NTP (National Toxicology Program)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

Toxicity

Aquatic toxicity:

770-35-4 1-Phenoxypropan-2-ol

LC50/48h	370 mg/l (Daphnia magna) (OECD 202)
LC50/96h	280 mg/l (Pimephales promelas) (OECD 203)
EC50/96h	>100 mg/L (Algae)
	220-460 mg/L (Brachydanio rerio)
EC50/48h	>100 mg/L (Daphnia magna)
EC50/72h	>100 mg/L (Desmodesmus subspicatus) (OECD 201)

5989-27-5 D-limonene

LC50/96h	0.72 mg/l (Pimephales promelas)
EC50/48h	0.36 mg/L (Daphnia magna)
EC50/72h	8 mg/L (Desmodesmus subspicatus)

Persistence and degradability No further relevant information available.

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Behavior in environmental systems:**Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Do not allow product to reach ground water, water course or sewage system.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

13 Disposal considerations

Waste treatment methods**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

14 Transport information

UN-Number**DOT/TDG**

Not regulated

ADR, IMDG, IATA

UN3082

DOT/TDG

Not regulated

TDG

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (D-limonene)

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (D-limonene), MARINE POLLUTANT

IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (D-limonene)

DOT/TDG (Transport dangerous goods):**Hazard Classification:**

Not regulated

TDG**Label**

9

IMDG, IATA**Hazard Classification:**

9 Miscellaneous dangerous substances and articles

Label

9

DOT/TDG

Not regulated

ADR, IMDG, IATA

III

Environmental hazards**Marine pollutant (according to IMDG):**

Product contains environmentally hazardous substances: D-limonene

Yes

Special marking (TDG):

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

Symbol (fish and tree)

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Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Hazard identification number (Kemler code):	90
EMS Number:	F-A,S-F
Stowage Category	A

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
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Transport/Additional information:	Not hazardous according to the above specifications.
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TDG	
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

IATA	
Remarks:	IATA Dangerous Goods Regulation (DGR): latest edition contains terpenes

UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (D-LIMONENE), 9, III
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15 Regulatory information

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

TSCA (Toxic Substances Control Act):

All ingredients are listed on the U.S. TSCA inventory or exempt from premanufacture notice requirements.

Canadian substance listings:

Canadian Domestic Substances List (DSL): (Substances not listed.)

All ingredients are listed.

Canadian Non Domestic Substances List (NDSL)

None of the ingredients is listed.

Canadian Environmental Protection Act (CEPA), Schedule 1:

None of the ingredients is listed.

National Pollutant Release Inventory (NPRI)

None of the ingredients are listed.

GHS label elements GHS label elements are issued under section 2.

National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

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

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.

H.R.2420 (RoHS):

This product fulfill the H.R.2420 requirements in that the EDEE Act regulated materials are absent or their concentrations are significantly below regulatory thresholds.

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BSE/TSE:

Materials and/or synthetically modified materials which are of animal origin from bovine, ovine, goats, cats, dogs, deer, elk and/or mink, are NOT included in this product.

Department issuing SDS: Product Stewardship

Editor's notice:

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

RoHS: Restriction of Hazardous Substances

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substance of Very High Concern (REACH)

CLP: Classification, Labeling and Packaging (European GHS)

PBT: Persistent, Bioaccumulative and Toxic chemicals

vPvB: very Persistent and very Bioaccumulative chemicals

ATE: Acute Toxicity Estimate

*** Data compared to the previous version altered.**

The asterisk (*) on the left side indicate the respective changes from the previous version.

CA