

**1 Identification****Product identifier****Trade name:** Additive C41**Article number:** 29117-01**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

Corrosion inhibitors

Stabilizer/ Inhibitor

**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 damage.

**Label elements****GHS label elements** acc. to Hazardous Products Regulations (HPR)**Hazard pictograms****Signal word** Danger**Hazard statements**

H227 Combustible liquid.

H315 Causes skin irritation.

H318 Causes serious eye damage.

**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.

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

P310 Immediately call a poison center/doctor.

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

P332+P313 If skin irritation occurs: Get medical advice/attention.

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.

(Contd. on page 2)

Issued on 29.07.2020

Edition number 1

Reviewed on 29.07.2020

**Trade name: Additive C41****vPvB:** Not applicable.

(Contd. of page 1)

### 3 Composition/Information on ingredients

**Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.**Declarable components:****CAS no.**

124-68-5	2-amino-2-methylpropanol	80-100% w/w *
27646-80-6	2-Methylamino-2-methyl-1-propanol	3-7% 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:**

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. Then consult a doctor.**After swallowing:** If symptoms persist consult doctor.**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:** CO<sub>2</sub>, 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**

Keep people at a distance and stay upwind.

Ensure adequate ventilation

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).

Use neutralizing agent.

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.

(Contd. on page 3)

CA

**Trade name: Additive C41**

See Section 13 for disposal information.

(Contd. of page 2)

## 7 Handling and storage

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

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

Optimal storage temperature between -15°C and 40°C.

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.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

**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.

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

(Contd. on page 4)

# Safety Data Sheet

## according to HPR, Schedule 1

Issued on 29.07.2020

Edition number 1

Reviewed on 29.07.2020

Trade name: Additive C41

Body protection (recommended): Protective work clothing

(Contd. of page 3)

### 9 Physical and chemical properties

#### Information on basic physical and chemical properties

##### General Information

##### Appearance:

Form:	Liquid
Color:	Colorless
Odor:	Amine-like
Odor threshold:	Not determined.

pH-value at 20 °C (68 °F): 11.3 (DIN 19268 / ASTM E70)

##### Change in condition:

Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	100-165 °C (212-329 °F) (DIN 51751 / ASTM D86)

Flash point: 81 °C (177.8 °F) (ISO 2592 / ASTM D92)

Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not applicable Not determined

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: Not determined.

##### Explosion limits (@1013 mbar):

Lower:	Not determined.
Upper:	Not determined.

Oxidizing properties: Not applicable.

Density at 20 °C (68 °F): 0.97 g/cm<sup>3</sup> (8.09 lbs/gal) (DIN 51757 / ASTM D1217)

Relative density: 0.97 @ 68°F (20°C) (DIN 51757 / ASTM D1217)

Vapor density: Not applicable.  
Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility with Water:

Soluble.

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

##### Viscosity

Dynamic at 20 °C (68 °F):	147 mPas (ISO 3104 / ASTM D445)
Kinematic:	Not determined.

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.

(Contd. on page 5)

CA

Trade name: Additive C41

(Contd. of page 4)

**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	>2,248 mg/kg
Dermal	LD50	>2,103 mg/kg

#### 124-68-5 2-amino-2-methylpropanol

Oral	LD50	2,150 mg/kg (Mouse)
Dermal	LD50	>2,000 mg/kg (rabbit)

#### Primary irritant effect:

**on the skin:** Causes skin irritation.

**on the eye:** Strong irritant with the danger of severe eye injury.

**Sensitization:** No sensitizing effects known.

#### 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:

#### 124-68-5 2-amino-2-methylpropanol

LC50/48h	193 mg/l (Daphnia magna)
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**Persistence and degradability** Easily biodegradable

#### Other information:

Biodegradation according OECD 301 B; after 28 days: > 80%.

The product is easily biodegradable according to the OECD 301 and 302 guidelines.

#### Behavior in environmental systems:

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

#### Ecotoxicological effects:

#### Behavior in sewage processing plants:

Type of test	Effective concentration	Method	Assessment
Fish-Toxicity			
EC50/96h :	>100 mg/l	OECD 203	Species: Poecilia reticulata (Guppy)
Daphnien-Toxizität			
EC50/48h:	>100 mg/l	OECD 202	Spezies: Daphnia magna
Toxicity to algae			
EC50/72h:	>100 mg/l	OECD 201	Species: Pseudokirchneriella subcapitata

(Contd. on page 6)

**Trade name: Additive C41**

(Contd. of page 5)

**Additional ecological information:**
**COD-value (DIN 38 414 - S9):** 2.41 mgO<sub>2</sub>/mg

**BOD<sub>5</sub>-value (SN EN 1899-1):** 2.69 mgO<sub>2</sub>/mg

**General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

**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.

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

## 14 Transport information

**UN-Number**
**DOT**

NA1993

**TDG, IMDG, IATA**

Not regulated

**DOT**

COMBUSTIBLE LIQUID, N.O.S (2-Amino-2-methyl-1-propanol)

**TDG, IMDG, IATA**

Not regulated

**DOT**
**Hazard Classification:**

CBL

**Label**

CBL

**IMDG, IATA**
**Hazard Classification:**

Not regulated

**DOT**

III

**TDG, IMDG, IATA**

Not regulated

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

No

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**Transport/Additional information:**

Not hazardous according to the above specifications.

**IMDG**
**Remarks:**

contains terpenes

**IATA**

IATA Dangerous Goods Regulation (DGR): latest edition

(Contd. on page 7)

# Safety Data Sheet

according to HPR, Schedule 1

Issued on 29.07.2020

Edition number 1

Reviewed on 29.07.2020

Trade name: Additive C41

(Contd. of page 6)

UN "Model Regulation":

Not regulated

## 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.

### 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:

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)

(Contd. on page 8)

CA

**Safety Data Sheet**  
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**Trade name: Additive C41**

(Contd. of page 7)

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.

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