

Safety Data Sheet

Lauryl Acrylate 1214 (LA 1214)

Revision date : 2017/05/03

Version: 5.0

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(30041964/SDS_GEN_CA/EN)

1. Identification

Product identifier used on the label

Lauryl Acrylate 1214 (LA 1214)

Recommended use of the chemical and restriction on use

Recommended use*: Monomer.

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

Telephone: +1 289 360-1300

Emergency telephone number

CANUTEC (reverse charges): (613) 996-6666

BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification

Synonyms: Reaction mass of dodecyl acrylate and tetradecyl acrylate. Use:
Monomer

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

Skin Sens.	1
Aquatic Acute	3

Skin sensitization
Hazardous to the aquatic environment - acute

Label elements

Pictogram:

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Signal Word:
Warning

Hazard Statement:

H317 May cause an allergic skin reaction.
H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P280 Wear protective gloves.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P272 Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.
See section 12 - Results of PBT and vPvB assessment.

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
79-10-7	0.05 - 0.1%	acrylic acid
112-53-8	0.12 - 0.12%	dodecan-1-ol
112-72-1	0.13 - 0.13%	tetradecanol
2156-97-0	51.0 - 57.0%	dodecyl acrylate
21643-42-5	41.0 - 47.0%	tetradecyl acrylate

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

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If on skin:

Wash thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
carbon dioxide, dry powder, water spray, foam

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
Risk of violent self-polymerization if overheated in a container. Cool endangered containers with water-spray.

Advice for fire-fighters

Further information:

In case of a fire in the vicinity a restabilization system should be used if the temperature in the storage container reaches 45°C. Evacuate area of all unnecessary personnel. In case of a fire in the vicinity evacuate all personnel in a greater area if the temperature in the storage container reaches 60°C.

Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures.

Avoid contact with the skin, eyes and clothing. Ensure adequate ventilation. Use personal protective clothing. Breathing protection required.

Environmental precautions

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Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water. Do not discharge into the subsoil/soil.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product. Dispose of absorbed material in accordance with regulations.

Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Subject contaminated water to waste water treatment.

7. Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. The substance/ product may be handled only by appropriately trained personnel. Facility parts must be checked for polymer residues and cleaned on regular basis in order to avoid hazardous reactions.

Ensure thorough ventilation of stores and work areas. Encapsulation or exhaust ventilation required. When filling, transferring, or emptying of containers, adequate local exhaust ventilation is necessary. Vent waste air to atmosphere only through suitable separators. Check the condition of seals and connector screw threads. Do not open warm or swollen product containers. Remove persons to safety and alert fire brigade.

The temperatures which must be avoided are to be considered. Protect against heat. Protect from direct sunlight. Protect contents from the effects of light.

Ensure adequate inhibitor and dissolved oxygen level.

Protection against fire and explosion:

Substance/product can form explosive mixture with air. Ground all transfer equipment properly to prevent electrostatic discharge. Containers should be grounded against electrostatic charge. It is recommended that all conductive parts of the machinery are grounded. Avoid all sources of ignition: heat, sparks, open flame. Vapours may form explosive mixture with air. Ignitable mixtures can be formed in the emptied container.

Heated containers should be cooled to prevent polymerization. If exposed to fire, keep containers cool by spraying with water. Emergency cooling must be provided for the eventuality of a fire in the vicinity. Sealed containers should be protected against heat as this results in pressure build-up. Avoid influence of heat.

Conditions for safe storage, including any incompatibilities

No applicable information available.

Further information on storage conditions: Risk of polymerization. Protect against heat. Protect from direct sunlight. Avoid UV-light and other radiation with high energy. Protect against contamination. Protect contents from the effects of light. Maintain contact with atmosphere containing 5 - 21% oxygen.

Storage stability:

Storage temperature: 2 - 35 °C

Storage duration: 12 Months

The stated storage temperature should be noted.

Avoid prolonged storage.

Ensure adequate inhibitor and dissolved oxygen level.

It is recommended to keep a safe distance of +2 degrees above the crystallization range.

Do not store with less than 10 % headspace above liquid.

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The product is stabilized, the shelf life should be noted.
Storage stability is based upon ambient temperatures and conditions described.

8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed. At concentrations < 250 ppm, use a chemical cartridge respirator. At concentrations > 250 ppm, use an air-supplied or self-contained breathing apparatus.

Hand protection:

Wear protective gloves of neoprene.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374); nitrile rubber (NBR) - 0.4 mm coating thickness, Manufacturer's directions for use should be observed because of great diversity of types., Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

light protective clothing

General safety and hygiene measures:

Avoid contact with skin. Avoid inhalation of vapour. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	faint specific odour	
Odour threshold:	not determined	
Colour:	colourless	
pH value:	not applicable, of low solubility	
melting range:	-41 - 2 °C	(OECD Guideline 102)
Boiling point:	approx. 120 °C (1 hPa) Cannot be distilled without decomposition at normal pressure.	(measured)
Sublimation point:	No applicable information available.	
Flash point:	approx. 109 °C	(DIN EN 22719; ISO 2719, closed cup)
Flammability:	not flammable	

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Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	240 °C	
Vapour pressure:	0.000067 hPa (20 °C)	(OECD Guideline 104)
Density:	0.8724 g/cm3 (20 °C)	(OECD Guideline 109)
Vapour density:	not determined	
Partitioning coefficient n-octanol/water (log Pow):	> 6.5 (23 °C)	(OECD Guideline 117)
Self-ignition temperature:	20 °C not self-igniting	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	5.14 mPa.s (20 °C)	(OECD 114)
Viscosity, kinematic:	(20 °C) not determined	
Particle size:	The substance / product is marketed or used in a non solid or granular form.	
Solubility in water:	< 0.02 g/l (20 °C)	
Solubility (quantitative):	No applicable information available.	
Solubility (qualitative):	No applicable information available.	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating (other)

Formation of flammable gases: Remarks:

Forms no flammable gases in the presence of water.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Explosion and fire hazard exists under confined conditions. Ignitable air mixtures can form when the product is heated above the flash point and/or when sprayed or atomized. Formation of explosive gas/air mixtures.

Risk of spontaneous and violent self-polymerization if inhibitor is lost or product is exposed to excessive heat. Risk of spontaneous polymerization when heated or in the presence of UV radiation. Polymerization coupled with heat formation. With unstabilised product, spontaneous polymerisation

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may occur e.g. through ambient heat. Polymerization produces gases which may burst closed or confined containers. Reactions may cause ignition.
Risk of spontaneous polymerization by oxygen depletion of the liquid phase.
Reacts with peroxides and other radical components. Reacts with nitric acid. Risk of spontaneous polymerization in the presence of oxidizing agents. Radical formation can cause exothermic polymerization. Risk of spontaneous polymerization in the presence of starters for radical chain reactions (e.g. peroxides). Polymerizes explosively in contact with strong oxidizing agents. Reacts with reducing agents.
Hazardous reactions in presence of mentioned substances to avoid.
The product is stabilized against spontaneous polymerization prior to despatch. The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid

Avoid heat. Avoid oxygen content above the product of less than 5 %. Do not blanket with nitrogen. Avoid UV-light and other radiation with high energy. Avoid direct sunlight. Avoid prolonged storage. Avoid inhibitor loss. Avoid excessive temperatures.

Incompatible materials

radical formers, free radical initiators, peroxides, mercaptans, nitro-compounds, perborates, azides, ether, ketones, aldehydes, amines, nitrates, nitrites, oxidizing agents, reducing agents, strong bases, acid anhydrides, acid chlorides, concentrated mineral acids, metal salts
Inert gas

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard. Virtually nontoxic after a single skin contact.

Oral

Type of value: LD50

Species: rat (male/female)

Value: > 5,570 mg/kg (BASF-Test)

Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 0.69 mg/l (IRT)

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Exposure time: 6 h
No mortality within the stated exposition time as shown in animal studies.

Dermal

Type of value: LD50
Species: rat (male/female)
Value: > 5,000 mg/kg (OECD Guideline 402)

Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure. The European Union (EU) has classified the substance as "causing irritation of the respiratory tract"

Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin. The European Union (EU) has classified the substance as "irritating to skin and eyes".

Skin

Species: rabbit
Result: Slightly irritating.
Method: Draize test

Eye

Species: rabbit
Result: non-irritant
Method: Draize test

Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

Species: In vitro assay
Result: sensitizing
Method: In vitro skin sensitization test battery

Aspiration Hazard

not applicable

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No substance-specific organotoxicity was observed after repeated administration to animals.

Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture.

Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The results were determined in a Screening test (OECD 421/422).

Teratogenicity

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Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The results were determined in a Screening test (OECD 421/422).

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish

LC50 (96 h) approx. 460 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates

No data available.

Aquatic plants

EC50 (72 h) 51.6 mg/l (growth rate), *Desmodesmus subspicatus* (DIN 38412 Part 9, static)

The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish

No data available.

Chronic toxicity to aquatic invertebrates

EC10 (21 d) $\geq$ 100 mg/l, *Daphnia magna* (OECD Guideline 211)

Assessment of terrestrial toxicity

No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

DIN 38412 Part 27 (draft) aerobic

bacterium/EC10: $> 10,000$ mg/l

The details of the toxic effect relate to the nominal concentration.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

Readily biodegradable (according to OECD criteria).

Elimination information

90 - 100 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge) Readily biodegradable (according to OECD criteria).

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Assessment of stability in water

In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis)

$t_{1/2} > 360$ d (25 °C, pH value 7), (calculated, pH 7)

In contact with water the substance will hydrolyse slowly.

Bioaccumulative potential

Assessment bioaccumulation potential

Accumulation in organisms is expected.

Bioaccumulation potential

Bioconcentration factor: 381.4

Accumulation in organisms is expected.

Mobility in soil

Assessment transport between environmental compartments

The substance will rapidly evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is expected.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Must be sent to a suitable incineration plant, observing local regulations.

Dispose of in accordance with national, state and local regulations.

Container disposal:

Uncleaned empties should be disposed of in the same manner as the contents.

WARNING: Empty containers may still contain hazardous residue.

14. Transport Information

Land transport

TDG

Hazard class: 9

Packing group: III

ID number: UN 3082

Hazard label: 9, EHSM

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains DODECYLACRYLATE, STABILIZED,
TETRADECYLACRYLATE, STABILIZED)

Sea transport

IMDG

Hazard class: 9

Packing group: III

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ID number: UN 3082
Hazard label: 9, EHS
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DODECYLACRYLATE, STABILIZED, TETRADECYLACRYLATE, STABILIZED)

Air transport

IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHS
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DODECYLACRYLATE, STABILIZED, TETRADECYLACRYLATE, STABILIZED)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released; restriction on quantity / not listed

Import allowed by Registrant (Legal Entity)

According to Controlled Products Regulations (CPR) (SOR/88-66)

WHMIS classification:

F: Dangerously reactive material

D2B: Materials Causing Other Toxic Effects - Toxic material



This product is WHMIS controlled.

Assessment of the hazard classes according to UN GHS criteria (most recent version):

Skin Sens.	1	Skin sensitization
Aquatic Acute	3	Hazardous to the aquatic environment - acute

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2017/05/03

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our

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operations on society and the environment during production, storage, transport, use and disposal of our products.

This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use.

Any other intended applications should be discussed with the manufacturer.

Safe Handling and Storage aspects are covered in a brochure which is available on request.

END OF DATA SHEET