

Safety Data Sheet acc. to OSHA HCS (HazCom 2012)

Printing date 12/19/2017

Reviewed on 12/19/2017

1 Identification

- **Product identifier**
- **Trade name:** **Ammonium Diluent Reagent LR**
- **Catalogue number:** 00531139, 531130, 424455
- **Application of the substance / the mixture:** Reagent for water analysis
- **Manufacturer/Supplier:**
Tintometer Inc.
6456 Parkland Drive
Sarasota, FL 34243
USA
phone: (941) 756-6410
fax: (941) 727-9654
www.lovibond.us
Made in Germany
- **Emergency telephone number:** + 1 866 928 0789 (English, French, Spanish)

* 2 Hazard(s) identification

- **Classification of the substance or mixture** The product is not classified as hazardous.
- **Label elements**
- **GHS label elements** none
- **Hazard pictograms** none
- **Signal word** none
- **Hazard statements** none
- **Other hazards** No further relevant information available.

* 3 Composition/information on ingredients

- **Chemical characterization:** **Mixtures**
- **Description:** aqueous solution
- **Composition and Information on Ingredients:**
Percent ranges are used due to the confidential product information.

CAS: 54-21-7 EINECS: 200-198-0 RTECS: VO5075000	sodium salicylate	⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319	2.5–5%
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes (at least 15 min) under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink 1-2 glasses of water.
If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**
irritations
resorption
after swallowing:
sickness

(Contd. on page 2)

— US —

Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 12/19/2017

Reviewed on 12/19/2017

Trade name: Ammonium Diluent Reagent LR

(Contd. of page 1)

vomiting
 after swallowing of large amounts:
 tinnitus (ringing in the ears)
 dizziness
 headache
 coma
 disorder of electrolyte balance

· **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
 The product is not combustible.
 Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
 Wear self-contained respiratory protective device.
 Wear fully protective suit.
- **Additional information**
 Collect contaminated fire fighting water separately. It must not enter the sewage system.
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 Ambient fire may liberate hazardous vapours.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
- **Advice for non-emergency personnel:** Wear protective equipment. Keep unprotected persons away.
- **Advice for emergency responders:** Protective equipment: see section 8
- **Environmental precautions:**
 Do not allow product to reach sewage system or any water course.
 Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
 Ensure adequate ventilation.
 Absorb with liquid-binding material (sand, diatomite, universal binders).
 Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
- **Advice on safe handling:**
 Prevent formation of aerosols.
 No special precautions are necessary if used correctly.
- **Hygiene measures:**
 The usual precautionary measures for handling chemicals should be followed.
 Wash hands before breaks and at the end of work.
 Do not eat, drink or smoke when using this product.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
 Protect from heat and direct sunlight.
 Protect from exposure to the light.
 Protect from humidity and water.
- **Recommended storage temperature:** 20°C +/- 5°C (approx. 68°F)

(Contd. on page 3)

US

Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 12/19/2017

Reviewed on 12/19/2017

Trade name: Ammonium Diluent Reagent LR

(Contd. of page 2)

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring 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.

· **Engineering measures:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

· **Personal protective equipment:**

· **Breathing equipment:** Use respiratory protective device against the effects of fumes/dust/aerosol.

· **Recommended filter device for short term use:** Filter P1

· **Protection of hands:**

Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

· **Penetration time of glove material**

Value for the permeation: Level ≤ 1 (10 min)

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

· **Eye protection:**

Safety glasses

use against the effects of fumes / dust

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment:** No further relevant information available.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **Appearance:**

Form / Physical state:	Fluid
Color:	Colorless

· **Odor:** Odorless

· **Odor threshold:** Not applicable.

· **pH-value at 20 °C (68 °F):** 10.4

· **Melting point/freezing point:** Not determined.

· **Initial boiling point and boiling range:** ~100 °C (~212 °F)

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Flammability or explosive limits:**

Lower: Not applicable.

Upper: Not applicable.

· **Oxidizing properties:** none

· **Vapor Pressure:** Not determined.

· **Density at 20 °C (68 °F):** ~1 g/cm³ (~8.35 lbs/gal)

· **Relative density:** Not determined.

· **Vapor density:** Not determined.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 12/19/2017

Reviewed on 12/19/2017

Trade name: Ammonium Diluent Reagent LR

(Contd. of page 3)

· Evaporation rate:	Not determined.
· Solubility(ies) Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	Not determined.
· Solvent content: Organic solvents: Water: Solids content:	0.0 % > 95 % < 5 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** see section "Possibility of hazardous reactions"
- **Chemical stability** Stable at ambient temperature (room temperature).
- **Possibility of hazardous reactions** No further relevant information available.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** see section 5

*11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

CAS: 54-21-7 sodium salicylate

Oral	LD50	930 mg/kg (rat) (RTECS)
	LDLo	700 mg/kg (human) (RTECS)

- **Primary irritant effect:**
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.
- **Information on components:** CAS 54-21-7: chronic: dermatitis
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

- **Other information:** see section 8 / 15

- **Synergistic Products:** None

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** The following statements refer to the mixture:
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.
- **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 12/19/2017

Reviewed on 12/19/2017

Trade name: **Ammonium Diluent Reagent LR**

(Contd. of page 4)

· **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

CAS 54-21-7: skin resorption (effects similar to those of ingestion)

CAS 54-21-7: chronic: central nervous system effects

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

CAS: 54-21-7 sodium salicylate

EC10	304 mg/l (Daphnia magna) (24) (ECOTOX)
LC50	1370 mg/l/96h (fathead minnow) (ECOTOX)

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential**

Pow = n-octanol/wasser partition coefficient

log Pow < 1 = Does not accumulate in organisms.

CAS: 54-21-7 sodium salicylate

log Pow	-1.43 (.) (calculated)
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· **Mobility in soil** No further relevant information available.

· **Other adverse effects**

Harmful effect due to pH shift.

Neutralization possible in waste water treatment plants.

Avoid transfer into the environment.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Small amounts may be diluted with plenty of water (3 to 5 times the volume) and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· **Uncleaned packagings:**

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

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

14 Transport information

· **UN-Number**

· **DOT, IMDG, IATA**

none

· **UN proper shipping name**

· **DOT, IMDG, IATA**

none

· **Transport hazard class(es)**

· **DOT, IMDG, IATA**

· **Class**

none

· **Packing group**

· **DOT, IMDG, IATA**

none

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Not applicable.

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

Not applicable.

(Contd. on page 6)

US

Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 12/19/2017

Reviewed on 12/19/2017

Trade name: Ammonium Diluent Reagent LR

(Contd. of page 5)

Transport/Additional information:	Not dangerous according to the above specifications.
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* 15 Regulatory information

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

Section 355 (Extremely hazardous substances):
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None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):
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None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:
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None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
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None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

New Jersey Right-to-Know List:

None of the ingredients is listed.

New Jersey Special Hazardous Substance List:

None of the ingredients is listed.

Pennsylvania Right-to-Know List:

None of the ingredients is listed.

Pennsylvania Special Hazardous Substance List:

None of the ingredients is listed.

EPA (Environmental Protection Agency)
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None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- **Information about limitation of use:** Not required.

- **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.

- **Relevant phrases**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

- **Date of preparation / last revision** 12/19/2017 / 17

- **Abbreviations and acronyms:**

OECD: Organisation for Economic Co-operation and Development

STOT: specific target organ toxicity

SE: single exposure

RE: repeated exposure

EC50: half maximal effective concentration

IC50: half maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration

ACGIH® - American Conference of Governmental Industrial Hygienists

•A1 - Confirmed human carcinogen

•A2 - Suspected human carcinogen

•A3 - Confirmed animal carcinogen with unknown relevance to humans

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 12/19/2017

Reviewed on 12/19/2017

Trade name: Ammonium Diluent Reagent LR

(Contd. of page 6)

•A4 - Not classifiable as a human carcinogen
 •A5 - Not suspected as a human carcinogen
 IARC - International Agency for Research on Cancer
 •Group 1 - Carcinogenic to humans
 •Group 2A - Probably carcinogenic to humans
 •Group 2B - Possibly carcinogenic to humans
 •Group 3 - Not classifiable as to carcinogenicity to humans
 •Group 4 - Probably not carcinogenic to humans
 NTP - National Toxicology Program, U.S. Department of Health and Human Services
 •Group K - Known to be Human Carcinogens
 •Group R - Reasonably Anticipated to be Human Carcinogens
 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
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 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)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Acute Tox. 4: Acute toxicity – Category 4
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

· **Sources**

Data arise from safety data sheets, reference works and literature.
 ECOTOX Database
 RTECS (Registry of Toxic Effects of Chemical Substances)

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