

AP3155 Safety Data Sheet (SDS)

Published: November 15, 2021

Version: 8.0

* 1. Identification

Product identifier

Product name: AP3155

Article number: UV-AP3155L

Application of the substance / the mixture: UV Adhesion Promoter, Industrial Use Only by Qualified Personnel

Details of the supplier of the safety data sheet

Supply55, Inc.
P.O. Box 1522
Ann Arbor, Michigan 48106-1522
734-668-0755

Information department: info@supply55.com

Emergency telephone number: 734-668-0755

2. Hazard(s) Identification

Classification of the substance or mixture

Flam. Liq. 3 H226 Flammable liquid and vapor.
Skin Corr. 1A H317 May cause an allergic reaction
Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Repr. 1B H360 May damage fertility or the unborn child.
STOT SE 3 H335 May cause respiratory irritation.

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02 GHS05 GHS07 GHS08

Signal word Danger

Hazard-determining components of labeling:

ethyl lactate hexamethylene
diacrylate
acrylic acid
dibutyl phthalate
Unsaturated carboxylic acid dimer

Hazard statements

Flammable liquid and vapor.
Causes serious eye damage.
May cause an allergic skin reaction.
May damage fertility or the unborn child.
May cause respiratory irritation.

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.

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Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
If exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place.
Keep container tightly closed. Keep cool. Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition / Information on Ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

13048-33-4 hexamethylene diacrylate	25 - 50%
Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
97-64-3 ethyl lactate	≥ 25 - ≤ 50%
Flam. Liq. 3, H226; Eye Dam. 1, H318; STOT SE 3, H335	
79-10-7 acrylic acid	≥ 0 - ≤ 10%
Flam. Liq. 3, H226; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; AcuteTox. 4, H332	
Unsaturated carboxylic acid dimer	
Eye Dam. 1, H318; Skin Sens. 1, H317	
67-63-0 isopropanol	≥ 0 - ≤ 2.5%
Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	
84-74-2 dibutyl phthalate	≥ 0 - ≤ 2.5%
Repr. 1B, H360	

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.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

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After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a 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. Fire-fighting Measures

Extinguishing media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system. 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.

See Section 13 for disposal information.

7. Handling and Storage

Handling:

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

Prevent formation of aerosols.

Information about protection against explosions and fires: Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

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

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8. Exposure Controls / Protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

13048-33-4 hexamethylene diacrylate

WEEL Long-term value: 1 mg/m³
DSEN

79-10-7 acrylic acid

REL Long-term value: 6 mg/m³, 2 ppmSkin
TLV Long-term value: 5.9 mg/m³, 2 ppmSkin

67-63-0 isopropanol

PEL Long-term value: 980 mg/m³, 400 ppm REL
Short-term value: 1225 mg/m³, 500 ppm
Long-term value: 980 mg/m³, 400 ppm

TLV Short-term value: 984 mg/m³, 400 ppmLong-
term value: 492 mg/m³, 200 ppmBEI

84-74-2 dibutyl phthalate

PEL Long-term value: 5 mg/m³REL
Long-term value: 5 mg/m³TLV Long-
term value: 5 mg/m³

Ingredients with biological limit values:

67-63-0 isopropanol

BEI 40 mg/L
Medium: urine
Time: end of shift at end of workweek Parameter:
Acetone (background, nonspecific)

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.
Store protective clothing separately.
Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

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

Eye protection:



Tightly sealed goggles

9. Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:

Liquid

Color:

According to product specification

Odor:

Characteristic

Odor threshold:

Not determined.

pH-value:

Not determined.

Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

107 °C (224.6 °F)

Flash point:

55.6 °C (132.1 °F)

Flammability (solid, gaseous):

Not applicable.

Decomposition temperature:

Not determined.

Auto igniting:

Product is not self-igniting.

Danger of explosion:

Not determined.

Explosion limits:

Lower:

Not determined.

Upper:

Not determined.

Vapor pressure:

Not determined.

Density:

Not determined.

Relative density

Not determined.

Vapor density

Not determined.

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Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solids content:	20.9 %
Other information	No further relevant information available.

10. Stability and Reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 > 3,987 - ≤ 11,962 mg/kg (rat)

Dermal LD50 > 4,466 – 13,397 mg/kg

Inhalative LC50/4 h > 175 - ≤ 526 mg/l

13048-33-4 hexamethylene diacrylate Oral

LD50 > 5,000 mg/kg (rat)

Dermal LD50 > 3,000 mg/kg (rabbit)

79-10-7 acrylic acid

Oral LD50 250 mg/kg (rat)

Dermal LD50 280 mg/kg (rabbit)

Inhalative LC50/4 h 11 mg/l (ATE)

67-63-0 isopropanol

Oral LD50 5,045 mg/kg (rat)

Dermal LD50 12,800 mg/kg (rabbit)

Inhalative LC50/4 h 30 mg/l (rat)

84-74-2 dibutyl phthalate

Oral LD50 8,000 mg/kg (rat)

Dermal LD50 20,000 mg/kg (rabbit)

Primary irritant effect:

on the skin: Caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

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Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

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

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

79-10-7 acrylic acid: 3

67-63-0 isopropanol: 3

123-35-3 Myrcene: 2B

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12. Ecological

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized. Danger to drinking water if even small quantities leak into the ground.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13. Disposal

Waste treatment methods

Recommendation:

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

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14. Transport

UN-Number

DOT, IMDG, IATA

UN1993, NA1993

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Product name: AP3155

UN-Number DOT NA1993
IMDG, IATA UN1993

UN proper shipping name

DOT COMBUSTIBLE LIQUID, N.O.S (Ethyl lactate, Acrylic acid, stabilized)
IMDG, IATA FLAMMABLE LIQUID, N.O.S. (ETHYL LACTATE, ACRYLIC ACID, STABILIZED)

Transport hazard class(es)

DOT



Class 3 Combustible
Label 3

IMDG, IATA

Class 3 Flammable liquids
Label 3

Packing group

DOT, IMDG, IATA III

Environmental hazards: Product contains environmentally hazardous substances: acrylic acid

Special precautions for user Warning: Flammable liquids

Hazard identification number (Kemler code): 30

EMS Number: F-E, S-C

Stowage Category A

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information: Per 49 CFR § 173.150(f)(1) : A flammable liquid with a flash point at or above 38 °C (100 °F) that does not meet the definition of any other hazard class may be reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable.

DOT Exception: Per 49 CFR 173.150(f)(2), the requirements of the US DOT Hazardous Materials Regulations (49 CFR Parts 170-180) do not apply to a combustible liquid (having a flashpoint above 140oF - 200oF) in non-bulk packaging (less than 119 gallons). DOT Interpretation Letter: Ref. No. 14-0020

DOT

Quantity limitations On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L

IMDG

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

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UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL LACTATE, ACRYLIC ACID, STABILIZED), 3, III, ENVIRONMENTALLY HAZARDOUS
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15. Regulatory

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

SARA

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

79-10-7 acrylic acid

67-63-0 isopropanol

84-74-2 dibutyl phthalate

TSCA (Toxic Substances Control Act):

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

13048-33-4 hexamethylene diacrylate:

97-64-3 ethyl lactate: ACTIVE

79-10-7 acrylic acid: ACTIVE

67-63-0 isopropanol: ACTIVE

84-74-2 dibutyl phthalate: ACTIVE

Hazardous Air Pollutants

79-10-7 acrylic acid

84-74-2 dibutyl phthalate

Proposition 65

Chemicals known to cause cancer:

123-35-3 Myrcene

Chemicals known to cause reproductive toxicity for females:

84-74-2 dibutyl phthalate

Chemicals known to cause reproductive toxicity for males:

84-74-2 dibutyl phthalate

Chemicals known to cause developmental toxicity:

84-74-2 dibutyl phthalate

Carcinogenic categories

EPA (Environmental Protection Agency)

84-74-2 dibutyl phthalate: D

TLV (Threshold Limit Value established by ACGIH)

79-10-7 acrylic acid: A4

67-63-0 isopropanol: A4

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

None of the ingredients is listed.

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictograms



GHS02 GHS05 GHS07 GHS08

Signal word Danger

Hazard-determining components of labeling:

ethyl lactate hexamethylene
diacrylateacrylic acid
dibutyl phthalate

Unsaturated carboxylic acid dimer

Hazard statements

Flammable liquid and vapor.
Causes serious eye damage.
May cause an allergic skin reaction.
May damage fertility or the unborn child.
May cause respiratory irritation.

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
If exposed or concerned: Get medical advice/attention. Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
In case of fire: Use for extinction: CO₂, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked cabinet.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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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

H225 Highly flammable liquid and vapor.
H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H360 May damage fertility or the unborn child.

Abbreviations and acronyms:

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
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitization – Category 1
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data altered compared to the previous version.

** This document is subject to correction for all errors and/or omissions.