



SAFETY DATA SHEET ACETONE & N BUTYL ACETATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name ACETONE & N BUTYL ACETATE
Product number 15097
Synonyms; trade names ACETONE & N BUTYL AC 80/20

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Chemical Industrial Solvent

1.3. Details of the supplier of the safety data sheet

Supplier Univar
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
sds@univar.com
+44 1274 267306

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)
Sds No. 15097

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC/1272/2008)

Physical hazards Flam. Liq. 2 - H225
Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H336
Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xi;R36. F;R11. R66,R67.

2.2. Label elements

Pictogram



Signal word Danger

ACETONE & N BUTYL ACETATE

Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing vapour/ spray. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with national regulations.
Supplemental label information	EUH066 Repeated exposure may cause skin dryness or cracking.
Contains	ACETONE, BUTYL ACETATE -norm

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ACETONE			60-100%
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		Classification (67/548/EEC or 1999/45/EC) F; R11. Xi; R36. R67	
BUTYL ACETATE -norm			10-30%
CAS number: 123-86-4	EC number: 204-658-1	REACH registration number: 01-2119485493-29	
Classification Flam. Liq. 3 - H226 STOT SE 3 - H336		Classification (67/548/EEC or 1999/45/EC) R66, R10, R67	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Keep the affected person warm and at rest. Get prompt medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.

ACETONE & N BUTYL ACETATE

Ingestion	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. DO NOT induce vomiting. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Drowsiness, dizziness, disorientation, vertigo. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
Ingestion	Central nervous system depression.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat according to symptoms: No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	The product is flammable. Heating may generate flammable vapours. Oxides of the following substances: Carbon. CAUTION: Reignition may occur Vapours may form explosive mixtures with air.
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5.3. Advice for firefighters

Protective actions during firefighting	Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	No smoking, sparks, flames or other sources of ignition near spillage. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation. Warn everybody of potential hazards and evacuate if necessary.
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6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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ACETONE & N BUTYL ACETATE

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Provide adequate ventilation. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. No smoking, sparks, flames or other sources of ignition near spillage. Stop leak if possible without risk.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes. Provide adequate ventilation. Vapours may accumulate on the floor and in low-lying areas. Keep away from heat, sparks and open flame. Avoid the formation of mists. Eliminate all sources of ignition. Static electricity and formation of sparks must be prevented. Protect against direct sunlight. Mechanical ventilation or local exhaust ventilation may be required. Use explosion proof electric equipment. Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from flammable and combustible materials. Earth container and transfer equipment to eliminate sparks from static electricity. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Suitable container materials: Stainless steel. Polyethylene-lined mild steel. Glass.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

ACETONE

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³

BUTYL ACETATE -norm

Long-term exposure limit (8-hour TWA): WEL 150 ppm 724 mg/m³

Short-term exposure limit (15-minute): WEL 200 ppm 966 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

ACETONE (CAS: 67-64-1)

Ingredient comments WEL = Workplace Exposure Limits

ACETONE & N BUTYL ACETATE

DNEL

Industry - Dermal; Long term : 186 mg/kg/day
 Industry - Inhalation; Short term : 2420 mg/m³
 Industry - Inhalation; Long term : 1210 mg/m³
 Consumer - Oral; Long term : 62 mg/kg/day
 Consumer - Dermal; Long term : 62 mg/kg/day
 Consumer - Inhalation; Long term : 200 mg/m³

PNEC

- Fresh water; 10.6 mg/l
 - Marine water; 1.06 mg/l
 - water; 21 mg/l
 - Sediment; 3.04 mg/kg
 - Soil; 33.3 mg/l
 - STP; 29.5 mg/l

BUTYL ACETATE -norm (CAS: 123-86-4)

Ingredient comments WEL = Workplace Exposure Limits

DNEL

Industry - Inhalation; Short term systemic effects: 960 mg/m³
 Industry - Inhalation; Short term local effects: 960 mg/m³
 Industry - Inhalation; Long term systemic effects: 480 mg/m³
 Industry - Inhalation; Long term local effects: 480 mg/m³
 Consumer - Inhalation; Short term systemic effects: 859.7 mg/m³
 Consumer - Inhalation; Short term local effects: 859.7 mg/m³
 Consumer - Inhalation; Long term systemic effects: 102.34 mg/m³
 Consumer - Inhalation; Long term local effects: 102.34 mg/m³

PNEC

- Fresh water; 0.18 mg/l
 - Marine water; 0.018 mg/l
 - Intermittent release; 0.36 mg/l
 - STP; 35.6 mg/l
 - Sediment (Freshwater); 0.981 mg/kg
 - Sediment (Marinewater); 0.0981 mg/kg
 - Soil; 0.0903 mg/kg

8.2. Exposure controls

Protective equipment



Eye/face protection

The following protection should be worn: Chemical splash goggles. EN 166

Hand protection

Use protective gloves. EN 374

Other skin and body protection

Wear rubber apron. Wear rubber footwear.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/145/143/149

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Clear liquid.

Odour

Characteristic.

ACETONE & N BUTYL ACETATE

Flash point	< -7°C CC (Closed cup).
Relative density	0.807– 0.813 @ @ 20°C
Solubility(ies)	Slightly soluble in water.

9.2. Other information

Refractive index	1.3640 – 1.3670
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Does not decompose when used and stored as recommended.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Forms explosive mixtures with air. Avoid the following conditions: Chlorinated hydrocarbons.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Amines. Strong reducing agents. Alkalis - inorganic. Alkalis - organic.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO ₂).
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation	Drowsiness, dizziness, disorientation, vertigo. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.
Ingestion	May cause nausea, headache, dizziness and intoxication. Gastrointestinal symptoms, including upset stomach. Central nervous system
Skin contact	Irritating to skin. Repeated exposure may cause skin dryness or cracking.
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

Toxicological information on ingredients.

ACETONE

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	5,800.0
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ACETONE & N BUTYL ACETATE

Species	Rat
Notes (oral LD₅₀)	OECD 401

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg)	15,800.0
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Species	Rat
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Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l)	76.0
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Species	Rat
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ATE inhalation (vapours mg/l)	76.0
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Inhalation	Drowsiness, dizziness, disorientation, vertigo. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.
Ingestion	May cause nausea, headache, dizziness and intoxication. Gastrointestinal symptoms, including upset stomach. Central nervous system depression.
Skin contact	Irritating to skin. Repeated exposure may cause skin dryness or cracking.
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

BUTYL ACETATE -norm

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg)	10,760.0
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Species	Rat
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Notes (oral LD₅₀)	OECD 423
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Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg)	14,112.0
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Species	Rabbit
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Notes (dermal LD₅₀)	OECD 402
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Inhalation	Vapours irritate the respiratory system. May cause coughing and difficulties in breathing. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Vapours may cause drowsiness and dizziness.
Ingestion	Gastrointestinal symptoms, including upset stomach. Nausea, vomiting.
Skin contact	Irritating to skin. Repeated exposure may cause skin dryness or cracking.

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Eye contact

Vapour or spray in the eyes may cause irritation and smarting.

SECTION 12: Ecological Information

Ecotoxicity

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity

Not considered toxic to fish.

Ecological information on ingredients.

ACETONE

Toxicity

Not considered toxic to fish.

Acute toxicity - fish

LC₅₀, 96 hours: 5540 mg/l, Onchorhynchus mykiss (Rainbow trout)
LC₅₀, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 8800 mg/l, Daphnia magna

Acute toxicity - microorganisms

, : 1000 mg/l, Activated sludge

BUTYL ACETATE -norm

Acute toxicity - fish

LC₅₀, 96 hours: 18 mg/l, Pimephales promelas (Fat-head Minnow)
OECD 203

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 44 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 647.7 mg/l,

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

Ecological information on ingredients.

ACETONE

Persistence and degradability

The product is readily biodegradable.

Biodegradation

Water - Degradation (%) 91: 28 days
The substance is readily biodegradable.

Chemical oxygen demand

2.21 g O₂/g substance

BUTYL ACETATE -norm

Persistence and degradability

The product is readily biodegradable.

Biodegradation

Water - Degradation (%) 83: 28 days

12.3. Bioaccumulative potential

ACETONE & N BUTYL ACETATE

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

ACETONE

Bioaccumulative potential The product is not bioaccumulating. BCF: 3,

Partition coefficient : -0.24

BUTYL ACETATE -norm

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient : 2.3

12.4. Mobility in soil

Mobility The product is partly miscible with water and may spread in the aquatic environment.

Ecological information on ingredients.

ACETONE

Mobility The product is soluble in water.

Adsorption/desorption coefficient Water - : 1.5 @ 20°C

Henry's law constant 3311 Pa m³/mol @ 25°C

BUTYL ACETATE -norm

Mobility No data available.

Surface tension 61.3 mN/m @ 20°C OECD 115

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Ecological information on ingredients.

ACETONE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

BUTYL ACETATE -norm

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not determined.

Ecological information on ingredients.

ACETONE

Other adverse effects No information required.

ACETONE & N BUTYL ACETATE

BUTYL ACETATE -norm

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	Do not puncture or incinerate, even when empty. Materials such as cleaning rags and paper wipes that are contaminated with flammable liquids may self-ignite after use and should be stored in designated fireproof containers with tight-fitting, self-closing lids. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993
UN No. (ADN)	1993

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, BUTYL ACETATE -norm)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, BUTYL ACETATE -norm)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, BUTYL ACETATE -norm)
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S. (CONTAINS ACETONE, BUTYL ACETATE -norm)

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ADN packing group	II

ACETONE & N BUTYL ACETATE

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 2

Emergency Action Code •3YE

Hazard Identification Number 33
(ADR/RID)

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation This product may impact SEVESO storage regulations.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance CHIP for everyone HSG228.
Workplace Exposure Limits EH40.
Safety Data Sheets for Substances and Preparations.
Approved Classification and Labelling Guide (Sixth edition) L131.
DSEAR

Inventory Information EINECS TSCA MITI DSL

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 20/06/2016

Revision 03

Supersedes date 06/05/2015

SDS number 15097

Version number 1.001

ACETONE & N BUTYL ACETATE

SDS status	Approved.
Signature	Jitendra Panchal
Risk phrases in full	R10 Flammable. R11 Highly flammable. R36 Irritating to eyes. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.