

Safety Data Sheet

Date: 12/19/22
Revision: B

Product Number: 50-0002-01
Product Name: Cleaner, Acetone

Based upon Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878

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

1.1 Product Identifier

Product Name: Cleaner, Acetone
Registration Number: 01-2119471330-49
Product Code: 50-0002-01

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

Product Use: Printing ink for use in BestCode CIJ

1.3 Details of the supplier of the safety data sheet

BestCode
3034 SE Loop 820
Fort Worth, TX 76140
817-349-8555

For further information, please contact Customer Service:

Customer Service: 817-349-8555
Email: Info@Bestcode.co

1.4 Emergency telephone number

Emergency Contact: Local Poison Information Center
Chem Tel. Inc. Toll Free 800-255-3924
International 813-248-0585

Section 2: Hazards identification

2.1 Classification of the mixture in accordance with Article 40 of Regulation (EC) No 1272/2008

GHS Rating:

Flammable Liquids, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Specific Target Organ Toxicity (single exposure), Category 3
Aquatic Toxicity (Acute), Category 3
Aquatic Toxicity (Chronic), Category 3

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)



Signal word: Danger



Safety Data Sheet

Date: 12/19/22
Revision: B

Product Number: 50-0002-01
Product Name: Cleaner, Acetone

Hazard statements:

- H225 - Highly flammable liquid and vapor.
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.
- H402 - Harmful to aquatic life.
- H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 - Keep container tightly closed.
- P240 - Ground/bond container and receiving equipment.
- P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 - Wash hands thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P235 - Keep cool.
- P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
- P337+313 - If eye irritation persists, get medical advice/attention.
- P370+378 - In case of fire, use ... to extinguish.
- P403+233 - Store container tightly closed in well-ventilated place.
- P405 - Store locked up.
- P501 - Dispose of contents/container to in accordance with local regulations.

2.3 Other Hazards

Hazards not otherwise classified (HNOC) or not covered by GHS.



Safety Data Sheet

Date: 12/19/22
Revision: B

Product Number: 50-0002-01
Product Name: Cleaner, Acetone

Section 3: Composition/information on ingredients

3.1 Substances:

Name of Substance	Identifier	Concentration	GHS Classification
Acetone	CAS No: 67-64-1 EC No: 200-662-2 Index No: 606-001-00-8 Reach Reg. No: 01-2119471330-49	85.0 – 100.0%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; EUH066

3.2 Mixtures:

Not Relevant

Section 4: First Aid Measures

4.1 Description of first aid measures

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid.

Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion: Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward.

4.2 Most Important symptoms and effects, both acute and delayed

Inhalation No Data Available
Eye contact No Data Available
Skin contact No Data Available
Ingestion No Data Available

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctor: Treat symptomatically and supportively.

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Use dry chemical, carbon dioxide, or appropriate foam. Water may be ineffective because it will not cool material below its flash point.



Safety Data Sheet

Date: 12/19/22
Revision: B

Product Number: 50-0002-01
Product Name: Cleaner, Acetone

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Extremely flammable liquid and vapor. Vapor may cause flash fire. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Evacuate the area

6.1.2 For emergency responders

Use proper personal protective equipment as indicated in Section 8.

6.2 Environmental Precautions

No data available.

6.3 Methods and material for containment and cleaning up

6.3.1 For Containment:

Avoid runoff into storm sewers and ditches which lead to waterways. Wear appropriate protective clothing to minimize contact with skin. Remove all sources of ignition. Provide ventilation. A vapor suppressing foam may be used to reduce vapors. Water spray may reduce vapor but may not prevent ignition in closed spaces. Use only non-sparking tools and equipment.

6.3.2 Clean up and disposal of spill:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.



Safety Data Sheet

Date: 12/19/22
Revision: B

Product Number: 50-0002-01
Product Name: Cleaner, Acetone

Section 7: Handling and storage

7.1 Precautions for safe handling

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing vapor.

7.2 Conditions for safe storage, including any compatibilities

Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

7.3 Specific end use(s)

Fluid delivery to BestCode Series 8 CIJ. Follow safety instructions outlined in 7.1 & 7.2 while handling. Observe warnings provided with BestCode Series 8 CIJ system when installing and handling fluids.

Section 8: Exposure control/personal protection

8.1 Control parameters

CAS #	Chemical Name	Australia	Austria	Belgium
67-64-1	Acetone	TWA 500ppm (1185mg/m3) STEL 1000ppm (2375mg/m3)	TWA 500ppm (1200mg/m3) STEL 2000ppm (4800mg/m3)	TWA 246ppm (594mg/m3) STEL 492ppm (1187mg/m3)

CAS #	Chemical Name	Ontario, CA	Québec, CA	Denmark
67-64-1	Acetone	TWA 250ppm STEL 500ppm	TWA 500ppm (1190mg/m3) STEL 1000ppm (2380mg/m3)	TWA 250ppm (600mg/m3) STEL 500ppm (1200mg/m3)

CAS #	Chemical Name	European Union	Finland	France
67-64-1	Acetone	TWA 500ppm (1210mg/m3)	TWA 500ppm (1200mg/m3) STEL 630ppm (1500mg/m3)	TWA 500ppm (1210mg/m3) STEL 1000ppm (2420mg/m3)



Safety Data Sheet

Date: 12/19/22

Product Number: 50-0002-01

Revision: B

Product Name: Cleaner, Acetone

CAS #	Chemical Name	German AGS	Germany DFG	Hungary
67-64-1	Acetone	TWA 500ppm (1200mg/m3) STEL 1000ppm (2400mg/m3)	TWA 500ppm (1200mg/m3) STEL 1000ppm (2400mg/m3)	TWA (1210mg/m3)

CAS #	Chemical Name	Ireland	Italy	Latvia
67-64-1	Acetone	TWA 500ppm (1210mg/m3)	TWA 500ppm (1210mg/m3)	TWA 500ppm (1210mg/m3)

CAS #	Chemical Name	New Zealand	PROC	Poland
67-64-1	Acetone	TWA 500ppm (1185mg/m3) STEL 1000ppm (2375mg/m3)	TWA (300mg/m3) STEL (450mg/m3)	TWA (600mg/m3) STEL (1800mg/m3)

CAS #	Chemical Name	Romania	Singapore	South Korea
67-64-1	Acetone	TWA 500ppm (1210mg/m3)	TWA 750ppm (1780mg/m3) STEL 1000ppm (2380mg/m3)	TWA 500ppm STEL 750ppm

CAS #	Chemical Name	Spain	Sweden	Switzerland
67-64-1	Acetone	TWA 500ppm (1210mg/m3)	TWA 250ppm (600mg/m3) STEL 500ppm (1200mg/m3)	TWA 500ppm (1200mg/m3) STEL 1000ppm (2400mg/m3)

CAS #	Chemical Name	The Netherlands	USA - NIOSH	United Kingdom
67-64-1	Acetone	TWA (1210mg/m3)	TWA 250 ppm (590 mg/m ³)	TWA 500 ppm (1210 mg/m ³) STEL 1500 ppm (3620 mg/m ³)

CAS #	Chemical Name	OSHA PELs	ACGIH TLV	California, USA PELs
67-64-1	Acetone	TWA 1000 ppm (2400 mg/m ³)	TWA 250ppm STEL 500ppm	TWA 500 ppm (1200 mg/m ³) STEL 750 ppm (1780 mg/m ³)



Safety Data Sheet

Date: 12/19/22
Revision: B

Product Number: 50-0002-01
Product Name: Cleaner, Acetone

CAS #	Chemical Name	Mexico
67-64-1	Acetone	PPT 500ppm CT 750ppm

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design.

8.2.2 Individual protection measures, such as personal protective equipment

Wear appropriate protective clothing to prevent skin exposure. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

- Eye/Face protection:** Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Impervious clothing. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- Hygienic Practices:** DO NOT SMOKE IN WORK AREA! Promptly remove contaminated clothing. Wash immediately if skin becomes contaminated. Do not eat or drink in work area while using this product. Wash thoroughly at the end of the workday, before eating and using the restroom.



Safety Data Sheet

Product Number: 50-0002-01
Product Name: Cleaner, Acetone

Date: 12/19/22
Revision: B

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Clear Liquid (Upon aging, clear or colorless fluids may develop a slight yellow tint which will not affect the product performance).		
Odor:	Solvent	Odor threshold:	No data available
pH:	No data available	Melting point:	-94.0-137.0C
Boiling range:	56.0 C	Flash point:	-17.0°C
Evaporation rate:	-	Upper Explosive Limit:	-
		Lower Explosive Limit:	-
Flammability:	No data available	Vapor Pressure:	-
Vapor density:	> Air	Relative Density:	0.79 (H2O = 1 @ 20 °C)
Solubility(ies):	Miscible	Partition coefficient n-octanol/water:	No data available
Auto-ignition temperature:	465.0 C	Decomposition temperature:	No data available
Viscosity:	No data available		
Explosive properties:	> 85.0% Volatile by volume.		
Oxidizing properties:	No data available		

9.2 Other information:

Miscibility:	No data available	VOC:	No data available
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Section 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Will not occur

10.4 Conditions to avoid:

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials:

Strong oxidizing agents, Strong reducing agents, Bases.

10.6 Hazardous decomposition products

Other decomposition products: No data available. In the event of fire: see section 5.



Safety Data Sheet

Product Number: 50-0002-01
Product Name: Cleaner, Acetone

Date: 12/19/22
Revision: B

Section 11: Toxicological information

11.1 Information on Toxicological effects

Acute toxicity:	No data available.
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	Mutagenic effects have occurred in experimental animals.
Carcinogenicity:	CAS# 67-64-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard	No data available

11.1.1 Hazard Class information:

No data available

11.1.2 Mixture toxicity:

No data available

11.1.3 Critical studies:

No data available

11.1.4 Non-compliance hazard class:

No data available

11.1.5 Information on likely routes of exposure:

No data available

11.1.6 Symptoms related to the physical, chemical and toxicological characteristics:

No data available

11.1.7 Delayed and immediate effects as well as chronic effects from short and long-term exposure:

No data available

11.1.8 Interactive effects:

No data available

11.1.9 Absence of specific data:

No data available

11.1.10 Mixtures:

No data available

11.1.11 Mixture vs Substance information:



Safety Data Sheet

Date: 12/19/22
Revision: B

Product Number: 50-0002-01
Product Name: Cleaner, Acetone

No data available

11.1.12 Other information:

No data available

Section 12: Ecological information

12.1 Toxicity:

AQUATIC FATE: If released into water, acetone will probably biodegrade. It is readily biodegradable in screening tests, although data from natural water are lacking. It will also be lost due to volatilization (estimated half-life 20 hr from a model river). Adsorption to sediment should not be significant.

Physical: ATMOSPHERIC FATE: In the atmosphere, acetone will be lost by photolysis and reaction with photochemically produced hydroxyl radicals. Half-life estimates from these combined processes are 79 and 13 days in January and June, respectively, for an overall annual average of 22 days. Therefore considerable dispersion should occur. Being miscible in water, wash out by rain should be an important removal process. This process has been confirmed around Lake Shinsei-ko in Japan. There acetone was found in the air and rain as well as the lake.

12.2 Persistence and degradability:

Volatilizes, leeches, and biodegrades when released to soil.

12.3 Bioaccumulative potential:

No data available

12.4 Mobility in soil:

If released on soil, acetone will both volatilize and leach into the ground. Acetone readily biodegrades and there is evidence suggesting that it biodegrades fairly rapidly in soils.

12.5 Results of PBT and vPvB assessment:

No data available

12.6 Other adverse effects:

No data available

Section 13: Disposal considerations

13.1 Waste treatment methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.



Safety Data Sheet

Date: 12/19/22
Revision: B

Product Number: 50-0002-01
Product Name: Cleaner, Acetone

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series:

CAS# 67-64-1: waste number U002 (Ignitable waste): waste number U154.

Section 14: Transport information

14.1	UN number:	1210
14.2	Proper shipping name:	
	US DOT:	Printing Ink Related Material
	Canadian TDG:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
	European ADR/RID:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
	IMDG/IMO:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
	ICAO/IATA:	Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]
14.3	Transport hazard class(es) :	3 - FLAMMABLE LIQUID
14.4	Packing group:	II
14.5	Environmental hazards:	N/A
14.6	Special precautions for user:	N/A
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	
		N/A

Section 15: Regulatory information

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

CAS #	Hazardous components	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
67-64-1	Acetone	-	-	-

CAS #	Hazardous components	TSCA	REACH	CERCLA
67-64-1	Acetone	Active	-	5000lbs



Safety Data Sheet

Product Number: 50-0002-01
Product Name: Cleaner, Acetone

Date: 12/19/22
Revision: B

Section 16: Other information

Revision Date: 12/19/2022
Revision Notes: Format updated to (EU) 2020/878.
Additional Information:

Company Disclaimer:

The information and recommendations contained herein are, to the best of BestCode's knowledge and belief, accurate and reliable as of the date issued. Because many factors may affect processing or application/use, BestCode recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not-permitted. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, date and information furnished by BestCode hereunder are given gratis and BestCode assumes no obligation or liability for the description, designs, data and information given or results obtained. All such being given and accepted at your risk.