



## Safety Data Sheet

### 51-0011-02 Ink Acetone Black

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878; US OSHA 29CFR 1910.1200.

Version 1.0 • Date of issue: 02-27-2024

#### SECTION 1: Identification

##### 1.1 GHS Product identifier

Product name	51-0011-02 Ink Acetone Black
Product number	51-0011-02
Brand	BestCode (REACH Registration number not relevant - mixture)

##### 1.3 Recommended use of the chemical and restrictions on use

Uses advised against - Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household)

##### 1.4 Supplier's details

Name	BestCode
Address	3034 SE Loop 820 Fort Worth TX 76140 USA
Telephone	817-349-8555
email	Info@Bestcode.co

##### 1.5 Emergency phone number

Chem Tel. Inc. Toll Free	800-255-3924
International	813-248-0585

#### SECTION 2: Hazard identification

##### General hazard statement

Hazardous ingredients for labelling : Acetone, n-Butyl Acetate

##### 2.1 Classification of the substance or mixture

- Eye damage/irritation, Cat. 2A
- Specific target organ toxicity (single exposure), Cat. 3
- Flammable liquids, Cat. 2

## 2.2 GHS label elements, including precautionary statements

### Pictograms



### Signal word

**Danger**

### Hazard statement(s)

H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H225 Highly flammable liquid and vapor  
H319 Causes serious eye irritation.

### Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash ... thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear eye protection/face protection/protective gloves.  
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.  
  
P312 Call a POISON CENTER/doctor/.../ if you feel unwell.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container to ...  
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.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
  
P370+P378 In case of fire: Use ... to extinguish.  
P403+P235 Store in a well-ventilated place. Keep cool.

## 2.3 Other hazards which do not result in classification.

Results of PBT and vPvB assessments : Does not contain a PBT-/vPvB substance in a concentration of  $\geq 0,1\%$ .

Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$



If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.  Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms/effects, acute and delayed.**

Narcotic effects

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

None

**SECTION 5: Fire-fighting measures**

**5.1 Suitable extinguishing media**

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media - water jet

**5.2 Specific hazards arising from the chemical.**

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits, and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products:

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge, use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapors into cellars, flues, and ditches. Ground/bond container and receiving equipment. Use explosion proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

**7.2 Conditions for safe storage, including any incompatibilities.**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids

Only Packaging's which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

<b>Substance</b>	Acetone
<b>CAS No.</b>	67-64-1

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
<a href="#">Australia</a>	500	1185	1000	2375
<a href="#">Austria</a>	500	1200	2000	4800
<a href="#">Belgium</a>	246	594	492 (1)	1187 (1)
<a href="#">Canada - Ontario</a>	250		500 (1)	
<a href="#">Canada - Québec</a>	250		500 (1)	
<a href="#">Denmark</a>	250	600	500	1200
<a href="#">European Union</a>	<b>500</b>	<b>1210</b>		
<a href="#">Finland</a>	500	1200	630 (1)	1500 (1)
<a href="#">France</a>	<b>500</b>	<b>1210</b>	<b>1000</b>	<b>2420</b>
<a href="#">Germany (AGS)</a>	500	1200	1000 (1)	2400 (1)
<a href="#">Germany (DFG)</a>	500	1200	1000 (1)	2400 (1)

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<a href="#">Hungary</a>		1210		
<a href="#">Ireland</a>	500	1210		
<a href="#">Italy</a>	500	1210		
<a href="#">Japan (MHLW)</a>	500			
<a href="#">Japan (JSOH)</a>	200	470		
<a href="#">Latvia</a>	500	1210		
<a href="#">New Zealand</a>	500	1185	1000	2375
<a href="#">Norway</a>	125	295		
<a href="#">People's Republic of China</a>		300		450 (1)
<a href="#">Poland</a>		600		1800 (1)
<a href="#">Romania</a>	500	1210		
<a href="#">Singapore</a>	750	1780	1000	2380
<a href="#">South Africa</a>	500		1000 (1)	
<a href="#">South Africa Mining</a>	500	1185	1000 (1)	2375 (1)
<a href="#">South Korea</a>	500		750 (1)	
<a href="#">Spain</a>	500	1210		
<a href="#">Sweden</a>	250	600	500 (1)	1200 (1)
<a href="#">Switzerland</a>	500	1200	1000	2400
<a href="#">The Netherlands</a>	500	1210	1000 (1)	2420 (1)
<a href="#">Turkey</a>	500	1210		
<a href="#">USA - NIOSH</a>	250	590		
<a href="#">USA - OSHA</a>	1000	2400		
<a href="#">United Kingdom</a>	500	1210	1500 (1)	3620 (1)

	Remarks
Belgium	(1) 15 minutes average value
Canada - Ontario	(1) 15 minutes average value
Canada - Québec	(1) 15 minutes average value
European Union	<b>Bold-type: Indicative Occupational Exposure Limit Value (IOELV)</b>
Finland	(1) 15 minutes average value
France	<b>Bold type: Restrictive statutory limit values</b>
Germany (AGS)	(1) 15 minutes average value
Germany (DFG)	(1) 15 minutes average value
People's Republic of China	(1) 15 minutes average value
Poland	(1) 15 minutes average value
South Africa	(1) 15 minutes average value
South Africa Mining	(1) 15 minutes average value
South Korea	(1) 15 minutes average
Sweden	(1) 15 minutes average value

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The Netherlands	(1) 15 minutes average value
United Kingdom	(1) 15 minutes average value

<b>Substance</b>	n-Butyl acetate
<b>CAS No.</b>	123-86-4

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
<a href="#">Australia</a>	150	713	200	950
<a href="#">Austria</a>	50	241	100 (1)	480 (1)
<a href="#">Belgium</a>	50	238	150 (1)	712 (1)
<a href="#">Canada - Ontario</a>	150		200	
<a href="#">Canada - Québec</a>	50		150 (1)	
<a href="#">Denmark</a>	150	241	300 (1)	1420 (1)
<a href="#">European Union</a>	<b>50</b>	<b>241</b>	<b>150 (1)</b>	<b>723 (1)</b>
<a href="#">Finland</a>	50	240	150 (1)	725 (1)
<a href="#">France</a>	<b>50</b>	<b>241</b>	<b>150 (1)</b>	<b>723 (1)</b>
<a href="#">Germany (AGS)</a>	62	300	124 (1)	600 (1)
<a href="#">Germany (DFG)</a>	100	480	200 (1)	960 (1)
<a href="#">Hungary</a>		241		723 (1)
<a href="#">Ireland</a>	50	241	150 (1)	723 (1)
<a href="#">Israel</a>	50	238	150 (1)	713 (1)
<a href="#">Italy</a>	50	241	150 (1)	723 (1)
<a href="#">Japan (MHLW)</a>	150			
<a href="#">Japan (JSOH)</a>	100	475		
<a href="#">Latvia</a>	50	241	150 (1)	723 (1)
<a href="#">New Zealand</a>	150	713	200	950
<a href="#">Norway</a>	50	241		
<a href="#">People's Republic of China</a>		200		300 (1)
<a href="#">Poland</a>		240		720 (1)
<a href="#">Romania</a>	50	241	150 (1)	723 (1)
<a href="#">Singapore</a>	150	713		
<a href="#">South Africa</a>	100		300 (1)	
<a href="#">South Africa Mining</a>	150	710	200 (1)	950 (1)
<a href="#">South Korea</a>	150		200 (1)	
<a href="#">Spain</a>	50	241	150 (1)	723 (1)
<a href="#">Sweden</a>	50	241	150 (1)	723 (1)

<a href="#">Switzerland</a>	50	240	150 (1)	720 (1)
<a href="#">The Netherlands</a>	50	241	150 (1)	723 (1)
<a href="#">USA - NIOSH</a>	150	710	200 (1)	950 (1)
<a href="#">USA - OSHA</a>	150	710		
<a href="#">United Kingdom</a>	150	724	200 (1)	966 (1)

	Remarks
Austria	(1) 15 minutes average value
Belgium	(1) 15 minutes average value
Canada - Québec	(1) 15 minutes average value
Denmark	(1) 15 minutes average value
European Union	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV)
Finland	(1) 15 minutes average value
France	Bold type: Restrictive statutory limit values (1) 15 minutes average value
Germany (AGS)	(1) 15 minutes average value
Germany (DFG)	(1) 15 minutes average value
Hungary	(1) 15 minutes average value
Ireland	(1) 15 minutes average value
Israel	(1) 15 minutes average value
Italy	(1) 15 minutes average value
Latvia	(1) 15 minutes average value
People's Republic of China	(1) 15 minutes average value
Poland	(1) 15 minutes average value
Romania	(1) 15 minutes average value
South Africa	(1) 15 minutes average value
South Africa Mining	(1) 15 minutes average value
South Korea	(1) 15 minutes average value
Spain	(1) 15 minutes average value
Sweden	(1) 15 minutes average value
Switzerland	(1) 15 minutes average value
The Netherlands	(1) 15 minutes average value
USA - NIOSH	(1) 15 minutes average value
United Kingdom	(1) 15 minutes average value

**8.2 Appropriate engineering controls**  
 General ventilation

**8.3 Individual protection measures, such as personal protective equipment (PPE)**



**Eye/face protection**

Wear eye/face protection.

**Body protection**

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.

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.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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).

**Environmental exposure controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**SECTION 9: Physical and chemical properties**

Appearance (physical state, color, etc.)	Liquid
Odor	Pungent
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	Not determined
Initial boiling point and boiling range	56,05 °C
Flash point	-17 °C
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	No data available.
Vapor pressure	240 hPa at 20°C
Vapor density	No data available.
Relative density	8.0 lb/gal
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	420 °C
Decomposition temperature	
Viscosity	No data available.

**Additional properties**

Physical state	Liquid
Color	Black
Explosive properties	None
Oxidizing properties	None

**Supplemental information regarding physical hazard classes**

VOC (Lb/gal) 1,17  
T2 (maximum permissible surface temperature on the equipment: 300°C)

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

Concerning incompatibility: see below "conditions to avoid" and "incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated: Risk of ignition

### **10.2 Chemical stability**

See below "conditions to avoid."

### **10.3 Possibility of hazardous reactions**

None under normal use conditions.

### **10.4 Conditions to avoid.**

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

### **10.5 Incompatible materials**

Oxidizers

### **10.6 Hazardous decomposition products**

Other decomposition products - No data available in the event of fire: see section 5

N-Butyl acetate: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

## **SECTION 11: Toxicological information**

### **Information on toxicological effects**

#### **Acute toxicity**

Test data not available for complete mixture.

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed.

#### **Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin.

#### **Serious eye damage/irritation**

Causes serious eye irritation.

#### **Respiratory or skin sensitization**

Shall not be classified as a respiratory or skin sensitizer.

#### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

#### **Carcinogenicity**

Shall not be classified as carcinogenic.

**Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

**Specific target organ toxicity (STOT) - single exposure**

May cause drowsiness or dizziness.

**Specific target organ toxicity (STOT) - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## **SECTION 12: Ecological information**

**Toxicity**

Shall not be classified as hazardous to the aquatic environment.

**Persistence and degradability**

No data available on product

**Bioaccumulative potential**

No data available on product

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

Results of PBT and vPvB assessments : Does not contain a PBT-/vPvB substance in a concentration of  $\geq 0,1\%$ .

**Endocrine disrupting properties**

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$

**Other adverse effects**

No data available

## **SECTION 13: Disposal considerations**

**Disposal methods**

**Product disposal**

Solvent reclamation/regeneration.

**Packaging disposal**

Dispose of as unused product.

**Waste treatment**

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**Sewage disposal**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

**Other disposal recommendations**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**SECTION 14: Transport information**

**49 CFR US DOT**

UN Number: 1210  
 Class: 3  
 Packing Group: II  
 Proper Shipping Name: Printing ink,[flammable or] Printing ink related material [(including printing ink thinning or reducing compound),flammable]  
 Marine pollutant: -  
 Reportable quantity (RQ) - 6,196 lbs (2,813 kg) (Methyl Ethyl Ketone)

**IMDG**

UN Number: 1210  
 Class: 3  
 Packing Group: II  
 EMS Number: F-E,S-D  
 Proper Shipping Name: Printing ink,[flammable or] Printing ink related material [(including printing ink thinning or reducing compound),flammable]

**IATA**

UN Number: 1210  
 Class: 3  
 Packing Group: II  
 Proper Shipping Name: Printing ink,[flammable or] Printing ink related material [(including printing ink thinning or reducing compound),flammable]

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations specific for the product in question**

<b>EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists</b>				
<b>CAS #</b>	<b>Hazardous components</b>	<b>S. 302 (EHS)</b>	<b>S. 304 RQ</b>	<b>S. 313 (TRI)</b>
67-64-1	Acetone	No	Yes 5000LB	No
123-86-4	N-Butyl Acetate	No	No	No

<b>CAS #</b>	<b>Hazardous components</b>	<b>Canadian NPRI</b>	<b>Canadian Toxic</b>	<b>Canadian DSL</b>
67-64-1	Acetone	No	No	Yes
123-86-4	N-Butyl Acetate	Yes 1 tonne		Yes

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67-64-1	Acetone	No	No	Yes - Inv
123-86-4	N-Butyl Acetate			Yes

CAS #	Hazardous components	CA Prop 65	Mexico INSQ	Australia ICS
67-64-1	Acetone	No	Listed	Listed
123-86-4	N-Butyl Acetate	No	Listed	Listed

CAS #	Hazardous components	New Zealand IOC	China IECSC	Japan ENCS
67-64-1	Acetone	Listed	Listed	Yes - 2-542
123-86-4	N-Butyl Acetate	Listed	Listed	Yes

CAS #	Hazardous components	Japan ISHL	Korea ECL	Philippines
67-64-1	Acetone	No	Yes KE-29367	Listed
123-86-4	N-Butyl Acetate	Yes	Yes	Listed

CAS #	Hazardous components	Taiwan TCSCA	Singapore HSL	Israel HSL:
67-64-1	Acetone	Listed	No	No
123-86-4	N-Butyl Acetate	Listed		

CAS #	Hazardous components	Germany WHCS	Switzerland Giftliste 1	Switzerland INNS
67-64-1	Acetone	Yes – 150	Yes G-2429	No
123-86-4	N-Butyl Acetate			

CAS #	Hazardous components	REACH	Kyoto GHG	Rotterdam
67-64-1	Acetone	Yes - (R), (P)	No	No
123-86-4	N-Butyl Acetate	No		

CAS #	Hazardous components	Stockholm		
67-64-1	Acetone	No		
123-86-4	N-Butyl Acetate			

## **SECTION 16: Other information**

### **16.1 Further information/disclaimer**

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their purposes. In no event shall BestCode be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if BestCode has been advised of the possibility of such damages.