Safety Data Sheet
52-0018-01 Makeup, Black to Blue MEK Free

1. IDENTIFICATION

Product identifier

Product Code(s)	52-0018-01
Product name	Makeup Solvent
Product category	Ink Product

Other means of identification Synonyms
None

Recommended use of the chemical and restrictions on use

Recommended use	Industrial Printing Operations

Details of the supplier of the safety data sheet

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

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation	Category 2 - (H319)
Flammable liquids	Category 2 - (H225)

Label elements

Signal word

Danger

Hazard statements
H225 - Highly flammable liquid and vapor H319
- Causes serious eye irritation

Precautionary Statements
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P403 + P235 - Store in a well-ventilated place. Keep cool

Hazards not otherwise classified (HNOC) No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	CAS No.	Weight-%	Trade secret	Note
2-Pentanone	107-87-9	60 - 80	*	
Ethyl alcohol	64-17-5	10 - 30	*	
Isopropyl alcohol	67-63-0	1 - 5	*	
n-Propyl acetate	109-60-4	1 - 5	*	

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Description of first aid measures

General Advice Show this safety data sheet to the doctor in attendance.
Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.
Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.
Inhalation Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed None under normal use conditions.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
No information available.

Special Provisions
Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions
Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children.

Incompatible Products Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure limits

Chemical name	**ACGIH TLV**
2-Pentanone 107-87-9	STEL: 150 ppm
Ethyl alcohol 64-17-5	STEL: 1000 ppm
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm
n-Propyl acetate 109-60-4	TWA: 100 ppm STEL: 150 ppm
Chemical name	**OSHA PEL**
2-Pentanone 107-87-9	TWA: 200 ppm TWA: 700 mg/m^3

Ethyl alcohol 64-17-5	TWA: 1000 ppm TWA: 1900 mg/m^3
Isopropyl alcohol 67-63-0	TWA: 400 ppm TWA: 980 mg/m^3
n-Propyl acetate 109-60-4	TWA: 200 ppm TWA: 840 mg/m^3
Chemical name	**OSHA PEL (vacated)**
2-Pentanone 107-87-9	TWA: 200 ppm TWA: 700 mg/m^3 STEL: 250 ppm
	STEL: 875 mg/m^3
Ethyl alcohol 64-17-5	TWA: 1000 ppm TWA: 1900 mg/m^3
Isopropyl alcohol 67-63-0	TWA: 400 ppm TWA: 980 mg/m^3 STEL: 500 ppm STEL: 1225 mg/m^3
n-Propyl acetate 109-60-4	TWA: 200 ppm TWA: 840 mg/m^3 STEL: 250 ppm STEL: 1050 mg/m^3
Chemical name	**Mexico OEL (TWA)**
2-Pentanone 107-87-9	STEL/VLE-CT: 150 ppm
Ethyl alcohol 64-17-5	STEL/VLE-CT: 1000 ppm
Isopropyl alcohol 67-63-0	TWA/VLE-PPT: 200 ppm STEL/VLE-CT: 400 ppm
n-Propyl acetate 109-60-4	TWA/VLE-PPT: 200 ppm STEL/VLE-CT: 250 ppm

Appropriate engineering controls

Engineering Measures Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hand Protection Chemical resistant protective gloves.
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
Due to different glove types, the manufacturer's directions for use should be observed.
Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	**Appearance**	Colored
Odor	No information available	**Odor threshold**	No information available

Property	**Values**	**Remarks • Method**
pH		No data available
Melting point / freezing point	No information available	No data available
Initial boiling point and boiling range	> 56 °C / 133 °F	
Flash point	8 °C / 46 °F	Tag closed cup (Minimum)
Evaporation rate		No data available
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Vapor pressure		No data available
Relative vapor density		No data available
Specific gravity - VALUE 1	0.81	
Water Solubility		No data available
Solubility in other solvents		No data available
Partition coefficient		No data available
Autoignition temperature	No information available	No data available
Hyphen		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
	No data available	
Explosive properties	No data available	
Oxidizing Properties		

Other information

Photochemically Reactive	No
Weight Per Gallon (lbs/gal)	6.72

VOC by weight % (less water)	**VOC by volume % (less water)**	**VOC lbs/gal (less water)**	**VOC grams/liter (less water)**
100	100	6.72	805.23

10. STABILITY AND REACTIVITY

Reactivity
No information available.

Chemical stability
Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Specific test data for the substance or mixture is not available.

Eye Contact Specific test data for the substance or mixture is not available.

Skin Contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Chemical name	**Oral LD50**
2-Pentanone 107-87-9	= 1600 mg/kg (Rat)
Ethyl alcohol 64-17-5	= 7060 mg/kg (Rat)
Isopropyl alcohol 67-63-0	= 1870 mg/kg (Rat)
n-Propyl acetate 109-60-4	= 8700 mg/kg (Rat)
Chemical name	**Dermal LD50**
2-Pentanone 107-87-9	= 6480 mg/kg (Rat)
Isopropyl alcohol 67-63-0	= 4059 mg/kg (Rabbit)
n-Propyl acetate 109-60-4	> 17756 mg/kg (Rabbit)
Chemical name	**Inhalation LC50**
2-Pentanone 107-87-9	2000 - 4000 ppm (Rat) 4 h
Ethyl alcohol 64-17-5	= 116.9 mg/L (Rat) 4 h = 133.8 mg/L (Rat) 4 h
Isopropyl alcohol 67-63-0	> 10000 ppm (Rat) 6 h
n-Propyl acetate 109-60-4	= 32 mg/L (Rat)

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Specific test data for the substance or mixture is not available.

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

Skin corrosion/irritation Specific test data for the substance or mixture is not available.

Eye damage/irritation Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components).

Irritation Specific test data for the substance or mixture is not available.

Corrosivity Specific test data for the substance or mixture is not available.

Sensitization Specific test data for the substance or mixture is not available.

Mutagenic Effects Specific test data for the substance or mixture is not available.

Carcinogenic effects Specific test data for the substance or mixture is not available.

Reproductive Effects Specific test data for the substance or mixture is not available.
STOT - single exposure Specific test data for the substance or mixture is not available.
STOT - repeated exposure Specific test data for the substance or mixture is not available.
Chronic Toxicity Specific test data for the substance or mixture is not available
Aspiration hazard Specific test data for the substance or mixture is not available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH
Ethyl alcohol 64-17-5	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
Isopropyl alcohol 67-63-0	A4 - Not Classifiable as a Human Carcinogen

Numerical measures of toxicity - Product Information

Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral) 2,328.60
ATEmix (dermal) 99,999.00
ATEmix (inhalation-gas) 99,999.00
ATEmix (inhalation-dust/mist) 99,999.00
ATEmix (inhalation-vapor) 99,999.00

12. ECOLOGICAL INFORMATION

Ecotoxicity

Specific test data for the substance or mixture is not available.

0 % of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants
Isopropyl alcohol 67-63-0	96h EC50 Desmodesmus subspicatus: > 1000 mg/L 72h EC50 Desmodesmus subspicatus: > 1000 mg/L
Chemical name	**Fish**
2-Pentanone 107-87-9	96h LC50 Pimephales promelas: 1190 - 1290 mg/L (flow-through)
Ethyl alcohol 64-17-5	96h LC50 Pimephales promelas: 13400 - 15100 mg/L (flow-through) 96h LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L (static) 96h LC50 Pimephales promelas: > 100 mg/L (static)
Isopropyl alcohol 67-63-0	96h LC50 Pimephales promelas: = 9640 mg/L (flow-through) 96h LC50 Pimephales promelas: = 11130 mg/L (static) 96h LC50 Lepomis macrochirus: > 1400000 µg/L
n-Propyl acetate 109-60-4	96h LC50 Pimephales promelas: 56 - 64 mg/L (flow-through) 96h LC50 Pimephales promelas: 56 - 64 mg/L (static)
Chemical name	**Crustacea**
Ethyl alcohol 64-17-5	48h LC50 Daphnia magna: 9268 - 14221 mg/L 48h EC50 Daphnia magna: = 2 mg/L Static
Isopropyl alcohol 67-63-0	48h EC50 Daphnia magna: = 13299 mg/L

Persistence and degradability

No information available.

Bioaccumulation

Chemical name	Partition coefficient
2-Pentanone 107-87-9	0.857
Ethyl alcohol 64-17-5	-0.35
Isopropyl alcohol 67-63-0	0.05
n-Propyl acetate 109-60-4	1.4

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste Disposal Methods	Contain and dispose of waste according to local regulations.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

Note:

This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

DOT

UN number or ID number	UN1210
Proper shipping name	Printing Ink
Transport hazard class(es)	3
Packing group	II

ICAO / IATA / IMDG / IMO UN

number or ID number	UN1210
UN proper shipping name	Printing Ink
Transport hazard class(es)	3
Packing group	II

15. REGULATORY INFORMATION

International Inventories

All substances are listed as ACTIVE on the TSCA Inventory. For further information, please contact:. Supplier (manufacturer/importer/downstream user/distributor).

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

US State Regulations

Chemical name	Massachusetts
2-Pentanone 107-87-9	X
Ethyl alcohol 64-17-5	X
Isopropyl alcohol 67-63-0	X
n-Propyl acetate	X
109-60-4	

Chemical name	Minnesota Right To Know
2-Pentanone 107-87-9	X
Ethyl alcohol 64-17-5	X
Isopropyl alcohol 67-63-0	X
n-Propyl acetate 109-60-4	X

Chemical name	New Jersey
2-Pentanone 107-87-9	X
Ethyl alcohol 64-17-5	X
Isopropyl alcohol 67-63-0	X
n-Propyl acetate 109-60-4	X

Chemical name	Pennsylvania
2-Pentanone 107-87-9	X
Ethyl alcohol 64-17-5	X
Isopropyl alcohol 67-63-0	X
n-Propyl acetate 109-60-4	X

California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects

Canada

Chemical name	NPRI - National Pollutant Release Inventory
2-Pentanone 107-87-9	Part 4 Substance - Criteria Air Contaminants
Ethyl alcohol 64-17-5	Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements Part 4 Substance - Criteria Air Contaminants
Isopropyl alcohol 67-63-0	Part 1, Group A Substance Part 5 Substance - Volatile Organic Compounds with Additional Reporting Requirements Part 4 Substance - Criteria Air Contaminants
n-Propyl acetate 109-60-4	Part 4 Substance - Criteria Air Contaminants

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
Ceiling Maximum limit value Sk* Skin designation + Sensitizers

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected human carcinogen
A3 - Animal 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 its carcinogenicity to humans
NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated to be a Human Carcinogen
OSHA: (Occupational Safety & Health Administration)
X - Present

Revision date Dec-15-2025

Pursuant to NOM-018-STPS-2015

This information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

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