



Allied Pressroom Products
Chemicals for the International Printing Industry

SAFETY DATA SHEET Crossover (USA)

1. Identification

Product identifier

Product name Crossover (USA)

Recommended use of the chemical and restrictions on use

Application For use as a blanket and roller wash in the lithographic printing industry.

Uses advised against No specific uses advised against are identified. Not for sale in the European Union.

Details of the supplier of the safety data sheet

Supplier ALLIED PRESSROOM PRODUCTS
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Monroe
North Carolina
28110
USA
TELEPHONE: +1 800-327-8487 (09:00-17:00 EST)
FAX: +1 704-635-7249
info@alliedchem.com

Emergency telephone number

Emergency telephone 24 HR. EMERGENCY TELEPHONE 800-424-9300 CHEMTREC Allied Pressroom Products
+1 800-327-8487 (09:00-17:00 EST)

National emergency telephone number 911

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Flam. Liq. 4 - H227

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H336 Asp. Tox. 1 - H304

Environmental hazards Not Classified

Human health The product is irritating to eyes and skin. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. May be harmful if swallowed. May cause drowsiness or dizziness.

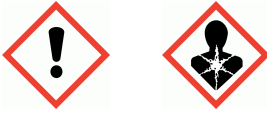
Environmental Harmful to aquatic life with long lasting effects.

Physicochemical Heating may generate flammable vapors. Vapors may form explosive mixtures with air.

Label elements

Crossover (USA)

Hazard symbols



Signal word

Danger

Hazard statements

H227 Combustible liquid.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H304 May be fatal if swallowed and enters airways.

Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
 P261 Avoid breathing vapor/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P310 If swallowed: Immediately call a poison center/ doctor.
 P302+P352 If on skin: Wash with plenty of water.
 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.
 P331 Do NOT induce vomiting.
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P337+P313 If eye irritation persists: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

2-BUTOXYETHANOL, DISTILLATES (PETROLEUM) HYDROTREATED LIGHT

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

2-BUTOXYETHANOL	20-30%
CAS number: 111-76-2	
Classification	
Flam. Liq. 4 - H227	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Asp. Tox. 1 - H304	

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DISTILLATES (PETROLEUM) HYDROTREATED LIGHT	20-30%
CAS number: 64742-47-8	
Classification	
Flam. Liq. 4 - H227	
Skin Irrit. 2 - H315	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	

The full text for all hazard statements is displayed in Section 16.

Composition comments Part/s of this formulation is/are a "Trade Secret". One or more of the components in the mixture is considered to be proprietary and will be revealed only at the discretion of the supplier. In the event of a special emergency, they will be disclosed to a qualified health professional. In non-emergency situations, it will be handled in accordance with the pertinent provisions of the OSHA Hazard Communication Standard.

4. First-aid measures

Description of first aid measures

General information No specific recommendations. If in doubt, get medical attention promptly.

Inhalation Move affected person to fresh air at once. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Remove affected person from source of contamination. Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention immediately.

Skin Contact Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or persist after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory system irritation. Vapours may cause drowsiness and dizziness.

Ingestion Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. May be harmful if swallowed.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with the following media: Carbon dioxide (CO₂). Alcohol-resistant foam. Dry chemicals, sand, dolomite etc.

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Unsuitable extinguishing media Do not use water, if avoidable.

Special hazards arising from the substance or mixture

Specific hazards May ignite at high temperature.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Toxic gases or vapors. Oxides of carbon. Nitrous gases (NOx). Sulfurous gases (SOx).

Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapors. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Avoid inhalation of vapors and contact with skin and eyes. Absorb in vermiculite, dry sand or earth and place into containers.

Reference to other sections For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): OSHA 50 ppm 240 mg/m³
Sk

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 97 mg/m³
A3

DISTILLATES (PETROLEUM) HYDROTREATED LIGHT

SUP 400 ppm /1600 mg/m³

SUP = Supplier's recommendation.

ACGIH - 8 Hour, TWA - 200 mg/m³

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OSHA = Occupational Safety and Health Administration.

Sk = Danger of cutaneous absorption.

ACGIH = American Conference of Governmental Industrial Hygienists.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

2-BUTOXYETHANOL (CAS: 111-76-2)

Immediate danger to life and health 700 ppm

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Wear protective gloves made of the following material: Nitrile rubber.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Do not smoke in work area.

Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear liquid.
Color	Colorless.
Odor	Slight.
Odor threshold	No information available.
pH	pH (concentrated solution): 6.5 - 7.5
Melting point	Not applicable.
Initial boiling point and range	212°F @ 760 mm Hg
Flash point	145.5°F Tag closed cup.
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	No information available.
Vapor pressure	Not available.
Vapor density	>1

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Relative density	0.94 @ 20°C
Bulk density	Not applicable.
Solubility(ies)	Miscible with water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Oxidizing properties	Not applicable.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.
Volatile organic compound	This product contains a maximum VOC content of 485.7 g/litre. This product contains a maximum VOC content of 4.1 lb per Gallon.
VOC Composite Partial Pressure:	0.09 mmHg (Calculated @ 20 C/68 F)
C.A.R.B. V.O.C.:	51.7%; 0% Photo Chemically Reactive.

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures.
Possibility of hazardous reactions	Will not polymerize.
Conditions to avoid	Avoid heat.
Materials to avoid	Strong oxidizing agents. Strong reducing agents.
Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x). Sulfurous gases (SO _x).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) May be harmful if swallowed.

ATE oral (mg/kg) 2,765.4

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

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Serious eye damage/irritation	Causes serious eye irritation.
<u>Respiratory sensitization</u>	
Respiratory sensitization	Based on available data the classification criteria are not met.
<u>Skin sensitization</u>	
Skin sensitization	Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	May cause drowsiness or dizziness.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Inhalation	The product contains organic solvents. May cause respiratory system irritation. Drowsiness, dizziness, disorientation, vertigo.
Ingestion	May cause stomach pain or vomiting. Pneumonia may be the result if vomited material containing solvents reaches the lungs. May be harmful if swallowed.
Skin Contact	Contains components which may penetrate the skin. Irritating.
Eye contact	Causes serious eye irritation.
Route of exposure	Skin and/or eye contact Inhalation Ingestion.
Target Organs	Eyes Skin Respiratory system, lungs Central nervous system

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity

Acute toxicity - fish Not known.

Acute toxicity - aquatic invertebrates Not known.

Acute toxicity - aquatic plants Not known.

Ecological information on ingredients.

DISTILLATES (PETROLEUM) HYDROTREATED LIGHT

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 25 mg/l, Oncorhynchus mykiss (Rainbow trout)

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Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.4 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 13 mg/l, Pseudokirchneriella subcapitata

Persistence and degradability

Ecological information on ingredients.

DISTILLATES (PETROLEUM) HYDROTREATED LIGHT

Persistence and degradability The product is readily biodegradable.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No information available.

Mobility in soil

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product is miscible with water and may spread in water systems.

Other adverse effects

Other adverse effects Not known.

13. Disposal considerations

Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number

UN No. (International) Not applicable.

UN No. (DOT) Not applicable.

UN proper shipping name

Proper shipping name (International) Not applicable.

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

Transport Labels (International) No transport warning sign required.

DOT transport labels

No transport warning sign required.

Packing group

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Packing group (International) Not applicable.

DOT packing group Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable.

DOT reportable quantity Not applicable.

DOT TIH Zone Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

National regulations Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

2-BUTOXYETHANOL

20-30%

CAA Accidental Release Prevention

Not listed.

FDA - Essential Chemical

Not listed.

FDA - Precursor Chemical

Not listed.

OSHA Highly Hazardous Chemicals

Not listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Not listed.

California Air Toxics "Hot Spots" (A-I)

2-BUTOXYETHANOL

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California Air Toxics "Hot Spots" (A-II)

Not listed.

California Directors List of Hazardous Substances

2-BUTOXYETHANOL

20-30%

Massachusetts "Right To Know" List

2-BUTOXYETHANOL

20-30%

Rhode Island "Right To Know" List

2-BUTOXYETHANOL

20-30%

Minnesota "Right To Know" List

2-BUTOXYETHANOL

20-30%

New Jersey "Right To Know" List

2-BUTOXYETHANOL

20-30%

Pennsylvania "Right To Know" List

2-BUTOXYETHANOL

20-30%

Inventories

Canada - DSL/NDSL

All the ingredients are listed or exempt.
DSL

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

Not listed.

16. Other information

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Abbreviations and acronyms used in the safety data sheet	<p>CAS: Chemical abstracts service. PBT: Persistent, bioaccumulative and toxic substance. vPvB: Very persistent and very bioaccumulative.</p> <p>ATE: Acute toxicity estimate. LC₅₀: Lethal concentration to 50 % of a test population. LD₅₀: Lethal dose to 50% of a test population (median lethal dose). EC₅₀: 50% of maximal effective concentration. IMDG: International maritime dangerous goods. IATA: International air transport association. TDG: The transport of dangerous goods act UN: United Nations. MARPOL 73/78: International convention for the prevention of pollution from ships, 1973 as modified by the protocol of 1978. IBC: International code for the construction and equipment of ships carrying dangerous chemicals in bulk (International bulk chemical code). GHS: Globally harmonized system.</p>
Classification abbreviations and acronyms	<p>Flam. Liq. = Flammable liquid Skin Irrit. = Skin irritation Eye Irrit. = Eye irritation Acute Tox. = Acute toxicity Aquatic Chronic = Hazardous to the aquatic environment (chronic) STOT SE = Specific target organ toxicity-single exposure</p>
Key literature references and sources for data	Material Safety Data Sheet, Misc. manufacturers.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision. Section 15 updated.
Issued by	J Waterfield
Revision date	11/14/2019
Revision	2.1
Supersedes date	6/17/2019
SDS No.	22907
Hazard statements in full	<p>H227 Combustible liquid. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.</p>
ACA HMIS Health rating.	Moderate hazard. (2)
ACA HMIS Flammability rating.	Burns only if heated moderately. (2)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	C

Crossover (USA)

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.