MasterBlend ZapIt Citrus Solvent

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	**MasterBlend ZapIt Citrus Solvent**
Common Name:	**Citrus Solvent**
SDS Number:	**08-150421**
Product Code:	**1824**
Revision Date:	**1/30/2024**
Version:	**2**
Internal ID:	**X780046**
Product Use:	**Water Soluble, Eco-Friendly Spotter**
Supplier Details:	**MasterBlend Indiana LLC 4345 W. 96th St Indianapolis, IN 46268**
Phone:	**(800) 525-9644**
Email:	**info@masterblend.net**
Web:	**www.masterblend.net**
Emergency:	INFOTRAC (800) 535-5053 (USA and Canada); +1 (352) 323-3500 (International)

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Liquids, 3
Health, Serious Eye Damage/Eye Irritation, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:

GHS Hazard Statements:

H226 - Flammable liquid and vapour
H318 - Causes serious eye damage

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces.
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/ vapours/ spray.
P264 - Wash skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/ eye protection/ face protection.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/ physician.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 - If eye irritation persists: Get medical advice/ attention.
P362 - Take off contaminated clothing and wash before reuse.

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391 - Collect spillage.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/ container to an approved waste disposal plant.

3 COMPOSITION/INFORMATION OF INGREDIENTS

This material is considered hazardous by the OSHA Hazardous Communication Standard (29 CFR 1910.1200)

Chemical Ingredients

CAS#	%	Chemical Name
68439-46-3	15-25%	Alcohols, C9-11, ethoxylated
5989-27-5	15-25%	d-Limonene
34590-94-8	15-25%	Dipropylene glycol methyl ether
68855-69-6	1-5%	Fatty acids, C8-18 and C18-unsatd., compds. with diisopropanolamine
64972-19-6	1-5%	.beta.-Alanine, N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-, monosodium salt
110-97-4	<1%	Diisopropanolamine
56-81-5	<1%	Glycerine

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

4 FIRST AID MEASURES

Inhalation: **If symptoms develop, move victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.**
Skin Contact: **Wash with soap and water.**
Eye Contact: **Immediately flush eyes with large amounts of water for at least 15 minutes, removing contacts, if present, and lifting eyelids occasionally to facilitate irrigation. Seek medical attention if irritation persists**
Ingestion: **Rinse mouth with water. Do not induce vomiting. Seek medical attention if you feel unwell.**

5 FIRE FIGHTING MEASURES

Use water spray, fog, carbon dioxide (CO2), foam or dry chemical.
Unsuitable extinguishing media: Water jet as it may spread fire.
Hazardous Combustion Products:
nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

6 ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Ventilate area and wash spill site after material pickup is complete.

7 HANDLING AND STORAGE

Handling Precautions: **Measures to prevent fire as well as aerosol and dust generation.**

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 vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

Warning
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. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene
Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

Storage Requirements: **Keep in a cool ventilated area. Keep container tightly closed. Keep out of reach of children**

8	EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

d-Limonene cas#:(5989-27-5) [1525] : No data.

Dipropylene glycol methyl ether cas#:(34590-94-8) [1525] : No data.

Diisopropanolamine cas#:(110-97-4) [1] : No data.

Glycerine cas#:(56-81-5) [1] : No data.

Personal Protective Equipment:

Personal protective equipment

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).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves 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.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Impervious clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Control of environmental exposure: Do not let product enter drains.

d-Limonene cas#:(5989-27-5) [1525] : No data.

Dipropylene glycol methyl ether cas#:(34590-94-8) [1525]

Components with workplace control parameters

TWA 100 ppm USA. ACGIH Threshold Limit Values (TLV)
Eye & Upper Respiratory Tract irritation Central Nervous System impairment Danger of cutaneous absorption

STEL 150 ppm USA. ACGIH Threshold Limit Values (TLV)
Eye & Upper Respiratory Tract irritation Central Nervous System impairment Danger of cutaneous absorption

TWA 100 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1
600 mg/m3 Limits for Air Contaminants
Skin designation The value in mg/m3 is approximate.

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
600 mg/m3 1910.1000
Skin notation

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
900 mg/m3 1910.1000
Skin notation

TWA 100 ppm USA. NIOSH Recommended Exposure Limits
600 mg/m3
Potential for dermal absorption

ST 150 ppm USA. NIOSH Recommended Exposure Limits
900 mg/m3

Potential for dermal absorption

Diisopropanolamine cas#:(110-97-4) [1] : No data.

Glycerine cas#:(56-81-5) [1]

Components with workplace control parameters

TWA	**10 mg/m3**	**USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000**
TWA	**5 mg/m3**	**USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000**
TWA	**10 mg/m3**	**USA. ACGIH Threshold Limit Values (TLV)**

Upper Respiratory Tract irritation
See Appendix D - Substances with No Established RELs

TWA	**5 mg/m3**	**USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants**
TWA	**15 mg/m3**	**USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants**

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	**Amber**		
Physical State:	**Liquid**	**Odor:**	**Citrus**
Odor Threshold:	**No data available**	**Solubility:**	**No data available**
Spec Grav./Density:	**0.9982 kg/l**	**Freezing/Melting Pt.:**	**No data available**
Viscosity:	**No data available**	**Flash Point:**	**51.1º C**
Boiling Point:	**> 100º C**	**Vapor Density:**	**No data available**
Partition Coefficient:	**No data available**	**Auto-Ignition Temp:**	**207º C**
Vapor Pressure:	**<2 mmHg @ 20º C**	**UFL / LFL:**	**No data available**
pH:	**No data available**		
Evap. Rate:	**No data available**		
Decomp Temp:	**No data available**		

10 STABILITY AND REACTIVITY

Reactivity:	**None under normal processing**
Chemical Stability:	**Product is stable under normal conditions.**
Conditions to Avoid:	**Avoid heat, sparks, flames and direct sunlight**
Materials to Avoid:	**None known based on the information provided**
Hazardous Decomposition:	**None known based on information provided**
Hazardous Polymerization:	**Not Known**

11 TOXICOLOGICAL INFORMATION

d-Limonene cas#:(5989-27-5) [1525]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 4,400 mg/kg Remarks: Behavioral:Change in motor activity (specific assay). Respiratory disorder Skin and Appendages: Other: Hair. Inhalation: Irritating to respiratory system.
LD50 Dermal - rabbit - > 5,000 mg/kg
no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: May cause sensitisation by skin contact.

Germ cell mutagenicity: no data available

Carcinogenicity:
Carcinogenicity - rat - Oral:
Tumorigenic:Carcinogenic by RTECS criteria. Kidney, Ureter, Bladder:Kidney tumors. Tumorigenic Effects: Testicular

Carcinogenicity - mouse - Oral:
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Gastrointestinal:Tumors.
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene)
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: GW6360000

Liver - Irregularities - Based on Human Evidence

Dipropylene glycol methyl ether cas#:(34590-94-8) [1525]

Information on toxicological effects

Acute toxicity:
Oral LD50 LD50 Oral - rat - 5,152 mg/kg
Inhalation LC50 no data available
Dermal LD50
Other information on acute toxicity

Skin corrosion/irritation: Serious eye damage/eye irritation:

Eyes - rabbit - Mild eye irritation - 24 h

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: JM1575000

Diisopropanolamine cas#:(110-97-4) [1]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 4,765 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Diarrhoea Nutritional and Gross Metabolic:Changes in:Body temperature decrease.
Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: Open irritation test

Serious eye damage/eye irritation: Eyes - rabbit Result: Severe eye irritation

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: UB6600000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Glycerine cas#:(56-81-5) [1]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 12,600 mg/kg
Inhalation: no data available

LD50 Dermal - rabbit - > 10,000 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: MA8050000

Prolonged or repeated exposure may cause:, Nausea, Headache, Vomiting
Kidney - Irregularities - Based on Human Evidence

12	ECOLOGICAL INFORMATION

d-Limonene cas#:(5989-27-5) [1525]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0.702 mg/l - 96.0 h.
Toxicity to daphnia and EC50 - Daphnia pulex (Water flea) - 69.6 mg/l - 48 h.
other aquatic
invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

Dipropylene glycol methyl ether cas#:(34590-94-8) [1525]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - > 10,000 mg/l - 96 h.
Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 1,919 mg/l - 48 h.
and other aquatic invertebrates

Persistence and degradability: Biodegradability

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Diisopropanolamine cas#:(110-97-4) [1]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - Carassius auratus (goldfish) - 1,100 mg/l - 24 h.

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Glycerine cas#:(56-81-5) [1]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

UN1993, Flammable liquids, n.o.s., (d-Limonene), 3, PG III

15 REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[15-25%] Alcohols, C9-11, ethoxylated (68439-46-3) TSCA, TSCAACTV

[15-25%] d-Limonene (5989-27-5) TSCA, TSCAACTV

[15-25%] Dipropylene glycol methyl ether (34590-94-8) MASS, OSHAWAC, PA, TSCA, TSCAACTV, TXAIR

[1-5%] Fatty acids, C8-18 and C18-unsatd., compds. with diisopropanolamine (68855-69-6) TSCA, TSCAACTV

[1-5%] .beta.-Alanine, N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-, monosodium salt (64972-19-6) TSCA, TSCAACTV

[<1%] Diisopropanolamine (110-97-4) MASS, PA, TSCA, TSCAACTV

[<1%] Glycerine (56-81-5) HAP, MASS, OSHAWAC, PA, TSCA, TSCAACTV, TXAIR

All ingredients for this product are listed or are exempt or excluded from being listed on the TSCA inventory.
SARA Title III chemicals: This product does not contain any chemicals which are subject to the reporting requirements.
California Prop 65 chemicals: None Known
CERCLA reportable quantity: This product, as supplied, does not contain any substances regulated as hazardous sustances under the Compehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).
RCRA hazardous waste no: N/A

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

Regulatory Code Legend

HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
TSCAACTV = TSCA Active Chemicals
TXAIR = TX Air Contaminants with Health Effects Screening Level

16 OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 other process, unless specified in the text.

Author:
Publication Date:
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