

Safety Data Sheet

Zero Rust Safety Yellow 28-71

SDS Revision Date:

12/08/2017

1. Identification

1.1. Product identifier

Product Identity

Zero Rust Safety Yellow 28-71

Alternate Names

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

Intended use

See Technical Data Sheet.

Application Method

See Product Label

1.3. Details of the supplier of the safety data sheet

Company Name

Amteco, Inc.
1100 Jefferson Street, PO Box 9
Pacific, MO 63069

Emergency

24 hour Emergency Telephone No.

CHEMTREC (800) 424-9300

Customer Service: Amteco, Inc.

Phone (636) 271-1300, Fax (636) 271-2211

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Flam. Aerosol 1;H222	Extremely flammable aerosol.
Press. Gas;H280	Contains gas under pressure; may explode if heated.
Flam. Liq. 2;H225	Highly Flammable liquid and vapor.
Skin Irrit. 3;H316	Causes mild skin irritation. (Not adopted by US OSHA)
Eye Irrit. 2;H319	Causes serious eye irritation.
STOT SE 3;H336	May cause drowsiness or dizziness.
Aquatic Chronic 3;H412	Harmful to aquatic life with long lasting effects.
Simple Asphyxiant	May displace oxygen and cause rapid suffocation.

2.2. Label elements



Danger

H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapor.

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H280 Contains gas under pressure; may explode if heated.

H316 Causes mild skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H412 Harmful to aquatic life with long lasting effects.

May displace oxygen and cause rapid suffocation.

Pressurized container: May burst if heated.

[Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P211 Do not spray on an open flame or other ignition source.

P233 Keep container tightly closed.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P251 Pressurized container: Do not pierce or burn, even after use.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P332+313 If skin irritation occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

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Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Acetone CAS Number: 0000067-64-1	10 - 25	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	[1][2]
Propane CAS Number: 0000074-98-6	10 - 25	Flam. Gas 1;H220 Press. Gas;H280	[1][2]
N-Butyl Acetate CAS Number: 0000123-86-4	10 - 25	Flam. Liq. 3;H226 STOT SE 3;H336	[1][2]
Butane CAS Number: 0000106-97-8	5 - 10	Flam. Gas 1;H220 Press. Gas;H280 Simple Asphyxiant	[1][2]
Isobutane CAS Number: 0000075-28-5	1 - 5	Flam. Gas 1;H220 Press. Gas;H280	[1][2]
Methyl Propyl Ketone CAS Number: 0000107-87-9	1 - 5	Flam. Liq. 2;H225 Acute Tox. 4;H302 Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315	[1][2]
2-Methoxy-1-Methylethyl Acetate CAS Number: 0000108-65-6	1 - 5	Flam. Liq. 3;H226	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	DO NOT INDUCE VOMITING. Give nothing by mouth. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Overview	EFFECTS OF OVEREXPOSURE: Overexposure may result in light-headedness, staggering gait, giddiness, and possible nausea. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. May cause eye and skin irritation. SIGNS AND SYMPTOMS OF OVEREXPOSURE: Headache, dizziness, nausea, and loss of coordination are
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indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing respiratory, skin, and eye disorders. Treat symptomatically. See section 2 for further details.

Inhalation May cause drowsiness or dizziness.
Eyes Causes serious eye irritation.
Skin Causes mild skin irritation.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Do not use: water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of Carbon
Keep away from heat / sparks / open flames / hot surfaces - No smoking.
Do not spray on an open flame or other ignition source.
Keep container tightly closed.
Ground / bond container and receiving equipment.
Use explosion-proof electrical / ventilating / light / equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Pressurized container: Do not pierce or burn, even after use.
Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

FIRE FIGHTING EQUIPMENT: Fire fighters should wear full protective equipment, and have self-contained breathing apparatus available.

SPECIAL PROCEDURES: Use water to cool containers exposed to a fire.

Self-extinguishing. Does not hold a flame

ERG Guide No. 126

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

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Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

Section 7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Keep out of reach of children. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: keep area ventilated- DO NOT SMOKE- Extinguish all flames, pilot lights, and heaters- Turn off stoves, electric tools and appliances, and any other source of ignition. Consult NFPA Code. Use approved Bonding and Grounding procedures. Contents under pressure. Do not puncture, incinerate, or expose to temperatures above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst, do not take internally.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: Strong acids and oxidizing materials

Category NFPA 30B Level 2 Aerosol

Do not store where temperatures may exceed 120F (48.9C)

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

See Product Label

Section 8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000067-64-1	Acetone	OSHA	TWA 1000 ppm (2400 mg/m3) STEL 2400 mg/m3
		ACGIH	TWA: 500 ppm STEL: 750 ppm
		NIOSH	250 ppm (590 mg/m3) TWA
		Supplier	No Established Limit
0000074-98-6	Propane	OSHA	TWA 1000 ppm (1800 mg/m3)
		ACGIH	Ensure Minimal Oxygen Content (ACGIH appendix F)

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		NIOSH	TWA 1000 ppm (1800 mg/m3)
		Supplier	No Established Limit
0000075-28-5	Isobutane	OSHA	No Established Limit
		ACGIH	STEL: 1000ppm
		NIOSH	TWA 800 ppm (1900 mg/m3)
		Supplier	No Established Limit
0000106-97-8	Butane	OSHA	No Established Limit
		ACGIH	TWA: 600 ppm STEL: 750 ppm
		NIOSH	TWA 800 ppm (1900 mg/m3)
		Supplier	No Established Limit
0000107-87-9	Methyl Propyl Ketone	OSHA	TWA 200 ppm (700 mg/m3)
		ACGIH	TWA: 150 ppm STEL: 250 ppm
		NIOSH	TWA 150 ppm (530 mg/m3)
		Supplier	No Established Limit
0000108-65-6	2-Methoxy-1-Methylethyl Acetate	OSHA	No Established Limit
		ACGIH	TWA: 50 ppm STEL: 75 ppm
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000123-86-4	N-Butyl Acetate	OSHA	TWA 150 ppm (710 mg/m3)
		ACGIH	TWA: 20 ppm
		NIOSH	TWA 150 ppm (710 mg/m3) ST 200 ppm (950 mg/m3)
		Supplier	No Established Limit

8.2. Exposure controls

Respiratory

If personal exposure cannot be controlled to below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2. When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust that may be generated from this product, underlying paint, or the abrasive.

Eyes

Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin

Wear overalls to keep skin contact to a minimum. Chemical resistant gloves may be needed for long term skin exposure.

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

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Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Yellow Liquid
Odor	Solvent
Odor threshold	Not determined
pH	Not Determined
Melting point / freezing point	Not Determined
Initial boiling point and boiling range	Not Determined
Flash Point	-156 °F (Propane)
Evaporation rate (Ether = 1)	Not Determined
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Determined Upper Explosive Limit: Not Determined
Vapor pressure (Pa)	Not Determined
Vapor Density	Not Determined
Specific Gravity	0.822
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Determined
Decomposition temperature	Not Determined
Viscosity (cSt)	Not Determined
Maximum Incremental Reactivity	0.66

9.2. Other information

No other relevant information.

Section 10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Do not expose to heat or store at temperature above 120°F.

10.5. Incompatible materials

Strong acids and oxidizing materials

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10.6. Hazardous decomposition products

Oxides of Carbon

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Acetone - (67-64-1)	5,800.00, Rat - Category: NA	7,426.00, Guinea Pig - Category: NA	76.00, Rat - Category: NA	50.10, Rat - Category: NA	No data available
Propane - (74-98-6)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
N-Butyl Acetate - (123-86-4)	10,760.00, Rat - Category: NA	17,600.00, Rabbit - Category: NA	No data available	No data available	No data available
Butane - (106-97-8)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
Isobutane - (75-28-5)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
Methyl Propyl Ketone - (107-87-9)	1,600.00, Rat - Category: 4	6,500.00, Rabbit - Category: NA	No data available	No data available	No data available
2-Methoxy-1-Methylethyl Acetate - (108-65-6)	6,190.00, Rat - Category: NA	>2,000.00, Rat - Category: 5	No data available	No data available	No data available

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000067-64-1	Acetone	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000074-98-6	Propane	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000075-28-5	Isobutane	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

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0000106-97-8	Butane	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000107-87-9	Methyl Propyl Ketone	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000108-65-6	2-Methoxy-1-Methylethyl Acetate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000123-86-4	N-Butyl Acetate	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	3	Causes mild skin irritation. (Not adopted by US OSHA)
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	3	May cause drowsiness or dizziness.
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Section 12. Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Toxic to aquatic life

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Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Acetone - (67-64-1)	100.00, Pimephales promelas	10.00, Daphnia magna	20.565 (72 hr), Ulva pertusa
Propane - (74-98-6)	Not Available	Not Available	Not Available
N-Butyl Acetate - (123-86-4)	18.00, Pimephales promelas	44.00, Daphnia sp	246.00 (72 hr), Pseudokirchnerella subcapitata
Butane - (106-97-8)	6.00, Fish (Piscis)	Not Available	Not Available
Isobutane - (75-28-5)	Not Available	Not Available	Not Available
Methyl Propyl Ketone - (107-87-9)	1,240.00, Pimephales promelas	Not Available	0.00 (96 hr),
2-Methoxy-1-Methylethyl Acetate - (108-65-6)	100.00, Oncorhynchus mykiss	501.00, Daphnia magna	1,001.00 (96 hr), Pseudokirchnerella subcapitata

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

Section 13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN1950	UN1950	UN1950
14.2. UN proper shipping name	UN1950, Aerosols, Limited Quantity, 2.1, NA	Aerosols, Limited Quantity	Aerosols, Limited Quantity
14.3. Transport hazard class(es)	DOT Hazard Class: 2.1	IMDG: 2.1 Sub Class: Not Applicable	Air Class: 2.1

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14.4. Packing group Not Applicable Not Applicable Not Applicable

14.5. Environmental hazards

IMDG Marine Pollutant: No;

14.6. Special precautions for user

No further information

Section 15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS 1988 Classification A B5 D2B

US EPA Tier II Hazards **Fire:** Yes

Sudden Release of Pressure: Yes

Reactive: No

Immediate (Acute): Yes

Delayed (Chronic): No

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

Ethyl Benzene

Methyl Isobutyl Ketone

Proposition 65 - Developmental Toxins (>0.0%):

Methyl Isobutyl Ketone

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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Section 16. Other information

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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness and dizziness.

IMPORTANT NOTE: This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or any process. Final determination of suitability of any material is the sole responsibility of the user.

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