

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

COMPANY NAME:	AMERICAN INDUSTRIES, INC.	PRODUCT NAME:	ZESTY
ADDRESS LINE 1:	4300 Kahn Drive, Box 1405	PRODUCT CODE:	2548
ADDRESS LINE 2:	Lumberton, NC 28359-1405 USA	PRODUCT USE:	Solvent Degreaser
TELEPHONE NUMBERS:	800-753-5153 (or) 910-738-7224	SDS FILE ID:	2548.01
EMERGENCY PHONE:	CHEMTREC 1-800-424-9300	SDS DATE:	2026-01-01

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Flammable Liquid	Category 4	H227
Eye Damage	Category 1	H318
Skin Sensitivity	Category 1	H317
Aspiration Toxicity	Category 1	H304

Label elements



Signal word

Danger

Hazard statements:

Combustible liquid. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye damage.

Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing mist, spray. Contaminated work clothing must not be allowed out of the workplace. Wear gloves/protective clothing/eye protection. IF SWALLOWED: Immediately call a poison center or doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, foam to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, nation and/or international regulation.

Other Hazards

No additional information available.

Unknown acute toxicity

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>CAS number</u>	<u>%</u>	<u>GHS US Classification</u>
Alkanes, C14-16	90622-46-1	10-30	Asp. Tox 1, H304
Undeceth-5	34398-01-1	10-30	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
d-Limonene	5989-27-5	1-5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
Dimethyl Succinate	106-65-0	1-5	Eye Irrit. 2A, H 319
Undecanol	112-42-5	1-5	Skin Irrit. 2, H315

All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4: FIRST AID MEASURES

General	Call a physician immediately.
Inhalation	Remove person to fresh air and keep comfortable for breathing.
Skin contact	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Ingestion	Do not induce vomiting. Call a physician immediately.
Symptoms/effects after inhalation	Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	May cause an allergic skin reaction.
Symptoms/effects after eye contact	Serious damage to eyes.
Symptoms/effects after ingestion	Risk of lung edema.
Other medical advice or treatment	Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, dry powder, foam, carbon dioxide.
Unsuitable extinguishing media	Do not use a heavy water stream.
Specific hazards arising from the chemical	
Fire hazard	Combustible liquid.
Explosion hazard	No direct explosion hazard.
Reactivity	Upon combustion: CO and CO ₂ are formed.
Firefighting instructions	Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.


SECTION 6: ACCIDENTAL RELEASE MEASURES

General measures	Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
For non-emergency personnel	
Protective equipment	Wear recommended personal protective equipment.
Emergency procedures	Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	Evacuate unnecessary personnel. Stop leak if safe to do so.
Environmental precautions	Avoid release to the environment.
Methods and materials for containment and cleaning up	
For containment	Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	Dispose of materials or solid residues at an authorized site.
For further information refer to Section 13	

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fumes/gas/mist/vapors/spray.
Hygiene measures	Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	Not expected to present a significant hazard under anticipated conditions of normal use.
Conditions for safe storage, including incompatibilities	
Technical measures	Keep in a cool, well-ventilated place away from heat.
Storage conditions	Store in a well-ventilated place. Keep cool. Store locked up.
Packaging materials	Store always product in container of same materials as original container.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	Not applicable.	
<u>Components</u>	<u>CAS number</u>	
d-Limonene	5989-27-5	Not applicable
Alkanes, C14-16	90622-46-1	Not applicable
Undeceth-5	34398-01-1	Not applicable
Undecanol	112-42-5	Not applicable
Dimethyl Succinate	106-65-0	Not applicable
Exposure controls		
Appropriate engineering controls	Ensure good ventilation of the work station.	
Personal protective equipment	Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective clothing. Protective goggles. Safety glasses.	
		
Hand protection	Protective gloves	
Eye protection	Safety glasses	
Skin and Body protection	Wear suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment	
Environmental exposure controls	Avoid release to the environment.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, orange, liquid
Odor	Citrus
Odor threshold	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	182°F Closed Cup
Relative evaporation rate (butylacetate=1)	No data available
Flammability	No data available
Explosive limits	No data available

Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20°C	No data available
Density	0.854 g/ml
Solubility	Emulsifies in water
Partition coefficient n-octanol/water (Log Pow)	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available
pH	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	< 20 cSt
Viscosity, dynamic	No data available
VOC content	< 3%

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Upon combustion: CO and CO2 are formed.
Chemical stability	Stable under normal conditions.
Conditions to avoid	Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Possibility of hazardous reactions	Upon combustion: Co and CO2 are formed.
Incompatible materials	No additional information available.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Not classified
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<u>Components</u>	<u>Test Results</u>
d-Limonene (5989-27-5)	
LD50 – oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 – dermal rabbit	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Read-across, Dermal, 7 day(s))
Alkanes, C14-16 (90622-46-1)	
LD50 – oral rat	> 5250 mg/kg Source: IUCLID
LD50 – dermal rabbit	> 2000 mg/kg Source: IUCLID
LC50 Inhalation – rat	> 5.8 mg/l/4h
Undeceth-5 (34398-01-1)	
LD50 – oral rat	> 1400 mg/kg
LD50 – dermal rabbit	> 2000 mg/kg Source: Butch Company
Undecanol (112-42-5)	
LD50 – oral rat	> 15800 mg/kg bodyweight (Rat, Male/female, Experimental value, Oral)
LD50 – dermal rabbit	5010 – 7940 mg/kg bw/day (24 h, Rabbit, Male/female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation – rat	> 2.05 mg/l (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value, Inhalation (vapors), 14 day(s))
ATE CLP – oral	3000 mg/kg bodyweight

ATE CLP – dermal	5010 mg/kg bodyweight
Dimethyl Succinate (106-65-0)	
LD50 – oral rat	6892 mg/kg (Rat; Experimental value)
LD50 – dermal rat	> 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 – dermal rabbit	> 5000 mg/kg (Rabbit)
ATE CLP – oral	6892 mg/kg bodyweight
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
d-Limonene (5989-27-5)	
IARC group	3 – Not classifiable
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	May be fatal if swallowed and enters airways.
Symptoms/effects after inhalation	Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	May cause an allergic skin reaction.
Symptoms/effects after eye contact	Serious damage to eyes.
Symptoms/effects after ingestion	Risk of lung oedema.
Likely routes of exposure	Skin and eyes contact

SECTION 12: ECOLOGICAL INFORMATION

Ecology – general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Ecotoxicity	d-Limonene (5989-27-5) LC50 – Fish [1] (<i>Pimephales promelas</i> , Equivalent or similar to OECD 203, 96 h, Flow-through system, Fresh water, Experimental value) 720 µg/l; EC50 – Crustacea [1] (<i>Daphnia magna</i> , OECD 202: <i>Daphnia</i> sp. Acute Immobilization Test, 48 h, Semi-static system, Fresh water, Experimental value, GLP) 0.307 mg/l; LC50 – Fish [2] (Test organisms (species): <i>Pimephales promelas</i>) 702 µg/l; EC50 – Crustacea [2] (Test organisms (species): <i>Daphnia magna</i>) 0.51 mg/l. Alkanes, C14-16 (90622-46-1) LC50 – Fish [1] 0.003 mg/l Source: EPISUITE. Undeceth-5 (34398-01-1) LC50 – Fish [1] 3.9 mg/l Source: ECOTOX; EC50 – Crustacea [1] < 10 mg/l; ErC50 algae < 10 mg/l. Undecanol (112-45-2) LC50 – Fish [1] (<i>Pimephales promelas</i> , Equivalent or similar to OECD 203, 96 h, Flow-through system, Fresh water, Experimental value) 1.04 mg/l; EC50 – Crustacea [1] (<i>Daphnia magna</i> , Equivalent or similar to OECD 202, 48 h, Static system, Fresh water, Experimental value, GLP) 0.765 mg/l. Dimethyl Succinate (106-65-0) LC50 – Fish [2] (<i>Brachydanio rerio</i> , OECD 203: Fish, Acute Toxicity Test, 48 h, Semi-static system, Fresh water, Experimental value) 50-100 mg/l; EC50 – Crustacea [2] (<i>Daphnia magna</i> , OECD 202: <i>Daphnia</i> sp. Acute Immobilization Test, 48 h, Static system, Fresh water, Experimental value) > 100 mg/l; Threshold limit – Algae [1] (<i>Pseudokirchneriella subcapitata</i> , ErC50; OECD 201: Alga, Growth Inhibition Test; 74 h, Static system, Fresh water, Experimental value) > 100 mg/l.
Persistence and degradability	
d-Limonene (5989-27-5)	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance.
Undecanol (112-42-5)	Biodegradable in the soil. Readily biodegradable in water.
ThOD	3.07 g O ₂ /g substance.
Dimethyl Succinate (106-65-0)	Readily biodegradable in water. Inherently biodegradable. Highly mobile in soil.
Bioaccumulative potential	
d-Limonene (5989-27-5)	Potential for bioaccumulation (4 ≤ Log K _{ow} ≤ 5).
BCF – Fish [1]	864.8 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight)

Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, Equivalent or similar to OECD 117, 37°C)
Bioaccumulative potential	Potential for bioaccumulation ($4 \leq \text{Log Kow} \leq 5$).
Alkanes, C14-16 (90622-46-1)	
Partition coefficient n-octanol/water (Log Pow)	7.2 Source: IUCLID
Undeceth-5 (34398-01-1)	
Partition coefficient n-octanol/water (Log Pow)	4 Source: EPISUITE
Undecanol (112-42-5)	Potential for bioaccumulation ($4 \leq \text{Log Kow} \leq 5$).
Partition coefficient n-octanol/water (Log Pow)	4.8 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25°C)
Dimethyl Succinate (106-65-0)	Low potential for bioaccumulation ($\text{Log Kow} < 4$).
BCF – Fish [1]	3.16 (BCF; BCFBAF v3.00; Pisces)
Partition coefficient n-octanol/water (Log Pow)	0.33 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40°C)

SECTION 13: DISPOSAL CONSIDERATIONS

Regional waste regulation	Disposal must be done according to official regulations.
Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	Disposal must be done according to official regulations.
Additional information	Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

US DOT	Not regulated for transport.
IMDG	No additional information available.
IATA	No additional information available.
ADR	No additional information available.
Additional information	No supplementary information available.

SECTION 15: REGULATORY INFORMATION

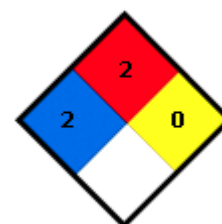
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

! WARNING: This product can expose you to Methanol, which is known to the state of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Training advice	Normal use of this product shall imply use in accordance with the instructions on the packaging.
NFPA health hazard	2 – Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	2 – Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	0 – Material that in themselves are normally stable, even under fire conditions



Important Note: *To be the best of our knowledge, the information contained herein is accurate. However there is no assumption of liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer/supplier, the manufacturer/supplier will not be responsible for loss, injury, or expense arising out of the products improper use. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.*

End of SDS