
SECTION 1: IDENTIFICATION

PRODUCT NAME: Water-Tite™
CHEMICAL NAME/SYNONYM: Mixture

MANUFACTURER: InCide Technologies, Inc.
ADDRESS: 50 N 41st Ave
Phoenix, AZ 85009

EMERGENCY PHONE: (602) 233-0756

RECOMMENDED USE: Impregnation agents

SECTION 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: Corrosive to Metals Category 1
Skin corrosion Category 1
Serious eye damage Category 1

HAZARD PICTOGRAM:



SIGNAL WORD: Danger

HAZARD STATEMENTS:

H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENTS:

PREVENTION:

P234: Keep only in original container.
P260: Do not breathe spray.
P264: Wash skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P363: Wash contaminated clothing before reuse.
P390: Absorb spillage to prevent material damage.

STORAGE:

P405: Store locked up.
P406: Store in corrosive resistant container with a resistant inner liner.

DISPOSAL:

P501: Dispose of contents/container to an approved waste disposal plant.

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION: None known.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE: Mixture

CHEMICAL NATURE: Silicates

HAZARDOUS INGREDIENTS:

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>
Sodium methyl silicate	16589-43-8	> = 30 - < 50
Methanol	67-56-1	> = 0.1 - < 1

SECTION 4: FIRST AID MEASURES

GENERAL ADVICE: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.

INGESTION: If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control center immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: Causes serious eye damage. Causes severe burns. Causes digestive tract burns.

PROTECTION OF FIRST-AIDERS: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

NOTES TO PHYSICIANS: Treat symptomatically and supportively.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray. Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemical.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC HAZARDS DURING FIRE FIGHTING: Exposure to combustion products may be a hazard to health.

HAZARDOUS COMBUSTION PRODUCTS: Carbon oxides. Silicon oxides. Metal oxides. Formaldehyde.

SPECIFIC EXTINGUISHING METHODS: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

ENVIRONMENTAL PRECAUTIONS: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers).

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to release and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Section 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7: HANDLING AND STORAGE

TECHNICAL MEASURES: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION SECTION.

LOCAL/TOTAL VENTILATION: Use with local exhaust ventilation.

ADVICE ON SAFE HANDLING: Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed. Keep away from metals. Store in original container or corrosive resistant and/or lined container. Take care to prevent spills, waste and minimize release to the environment.

CONDITIONS FOR SAFE STORAGE: Keep in properly labeled containers. Store in original container. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.

MATERIALS TO AVOID: Do not store with the following product types: Strong oxidizing agents. Organic peroxides. Explosives.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS WITH WORKPLACE CONTROL/PERSONAL PROTECTION:

INGREDIENTS	CAS-NO.	VALUE TYPE (FORM OF EXPOSURE)	CONTROL PARAMETERS/ PERMISSIBLE CONCENTRATION	BASIS
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m ³	NIOSH REL
		ST	250 ppm 325 mg/m ³	NIOSH REL
		TWA	200 ppm 260 mg/m ³	OSHA Z-1

HAZARDOUS COMPONENTS WITHOUT WORKPLACE CONTROL PARAMETERS:

INGREDIENTS	CAS-NO
Sodium methyl siliconate	16589-43-8

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:

INGREDIENTS	CAS-NO.	CONTROL PARAMETERS	BIOLOGICAL SPECIMEN	SAMPLING TIME	PERMISSIBLE CONCENTRATION	BASIS
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

ENGINEERING MEASURES: Processing may form hazardous compounds (see section 10). Minimize workplace exposure concentrations. Use with local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemicals is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

HAND PROTECTION: Chemical- resistant gloves.

REMARKS: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of the workday.

EYE PROTECTION: Wear the following personal protective equipment. Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield.

SKIN AND BODY PROTECTION: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.).

HYGIENE MEASURES: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact InCide Technologies, Inc.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid

COLOR: Colorless

ODOR: Slight

ODOR THRESHOLD: No data available

pH: 13

MELTING POINT/FREEZING POINT: No data available

INITIAL BOILING POINT AND BOILING RANGE: 100 °C

FLASH POINT: > 100 °C Method: Closed cup

EVAPORATION RATE: No data available

FLAMMABILITY (SOLID, GAS): Not applicable

UPPER EXPLOSION LIMIT: No data available

LOWER EXPLOSION LIMIT: No data available

VAPOR PRESSURE: No data available

RELATIVE VAPOR DENSITY: No data available

RELATIVE DENSITY: 1.25

SOLUBILITY(IES) / WATER SOLUBILITY: No data available

PARTITION COEFFICIENT / NOCTANO/WATER: No data available

AUTOIGNITION TEMPERATURE: No data available

DECOMPOSITION TEMPERATURE: No data available

VISCOSITY / VISCOSITY, KINEMATIC: 10 cSt

EXPLOSIVE PROPERTIES: Not explosive

OXIDIZING PROPERTIES: The substance or mixture is not classified as oxidizing.

MOLECULAR WEIGHT: No data available

METAL CORROSION RATE: Corrosive to metals

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Not classified as a reactivity hazard.

CHEMICAL STABILITY: Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: None known.

CONDITIONS TO AVOID: Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. May be corrosive to metals. Hazardous decomposition products will be formed at elevated temperatures.

INCOMPATIBLE MATERIALS: Oxidizing agents / Acids

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Formaldehyde

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Inhalation / Skin contact / Ingestion / Eye contact

Acute Toxicity: Not classified based on available information.

Product:

Acute oral toxicity
Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute Dermal Toxicity
Acute toxicity estimate (Humans): 300 mg/kg
Method: Expert judgment

Acute inhalation toxicity
Acute toxicity estimate: > 200 mg/l
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity
Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Ingredients:

Methanol:

Acute oral toxicity
Acute toxicity estimate (Humans): 300 mg/kg
Method: Expert judgment

Acute inhalation toxicity
Acute toxicity estimate (Humans): 3 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Expert judgment
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Skin Corrosion/Irritation: Causes severe burns.

Ingredients:

Sodium methyl silicate:

Species: Rabbit
Result: Corrosive after 3 minutes or less of exposure
Remarks: Based on data from similar materials

Methanol:

Species: Rabbit
Result: No skin irritation

Serious Eye Damage/Eye Irritation: Causes serious eye damage.

Ingredients:

Sodium methyl silicate:

Species: Rabbit
Result: Irreversible effects on the eye
Remarks: Based on test data

Methanol:

Species: Rabbit
Result: No eye irritation

Respiratory or Skin Sensitization:

Skin Sensitization: Not classified based on available information.

Respiratory Sensitization: Not classified based on available information.

Ingredients:

Methanol:

Test Type: Maximization Test
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative

Germ Cell Mutagenicity: Not classified based on available information.

Ingredients:

Methanol:

Genotoxicity in vitro:
Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo:
Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

Carcinogenicity: Not classified based on available information.

Ingredients:

Methanol:

Species: Mouse
Application Route: inhalation (vapor)
Exposure time: 18 months
Method: OECD Test Guidelines 453
Result: negative

IARC No ingredient of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No ingredient of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No ingredient of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive Toxicity: Not classified based on available information.

Ingredients:

Methanol:

Effects on fertility:
Test Type: Fertility/early embryonic development
Species: Mouse
Application Route: Ingestion
Result: negative

Effects on fetal development:
Test Type: Embryo-fetal development
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: positive
Remarks: The effects were seen only at maternally toxic doses.

STOT-Single Exposure: Not classified based on available information.

Ingredients:

Methanol:

Target Organs: Eyes, Central nervous system
Assessment: Causes damage to organs

STOT-Repeated Exposure: Not classified based on available information.

Repeated Dose Toxicity:

Ingredients:

Methanol:

Species: Rat

NOAEL: 1.06 mg/l

Application Route: Inhalation (Vapor)

Exposure time: 90 Days

Aspiration Toxicity: Not classified based on available information.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ingredients:

Methanol:

Toxicity to fish: LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h

Toxicity to algae: EC50 (Pseudokirchneriella subcapitata (green algae)): 22,000 mg/l

Exposure time: 96 h

Method: OPPTS 850.5400

Toxicity to fish (Chronic toxicity): NOEC (Oryzias latipes (Orange-red killifish)): 15,800 mg/l

Exposure time: 200 h

Toxicity to bacteria: EC50: 20,000 mg/l

Exposure time: 15h

Persistence and Degradability:

Ingredients:

Methanol:

Biodegradability: Result: Readily biodegradable

Biodegradation: 95%

Exposure time: 20 d

Bioaccumulative potential:

Ingredients:

Methanol:

Bioaccumulation: Species: Leuciscus idus (Golden orfe)

Partition coefficient: n-octano/water: log Pow: -0.77

Mobility in soil: No data available.

Other adverse effects: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Resource Conservation and Recovery Act (RCRA): When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.

Waste Code: D001: Corrosivity

Waste from residues: Dispose of in accordance with local regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

RCRA HAZARD CLASS: The product is not listed under any section of the Federal Resource Conservation and Recovery Act (RCRA).

SECTION 14: TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS

UNRTDG

UN number: UN 1719
 Property shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (Sodium methyl silicate)
 Class: 8
 Packing group: II
 Labels: 8

IATA-DGR

UN/ID No.: UN 1719
 Proper shipping name: Caustic alkali liquid, n.o.s. (Sodium methyl silicate)
 Class: 8
 Packing group: II
 Labels: Corrosive
 Packing instructions (cargo aircraft): 855
 Packing instructions (passenger aircraft): 851

IMDG-Code:

UN number: UN 1719
 Proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (Sodium methyl silicate)
 Class: 8
 Packing group: II
 Labels: 8
 EmS Code: F-A, S-B
 Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not application for product as supplied.

DOMESTIC REGULATION

49 CRF

UN/ID/NA number: UN 1719
 Proper shipping name: CAUSTIC ALKALI LIQUIDS, N.O.S. (Sodium methyl silicate)
 Class: 8
 Labels: CORROSIVE
 ERG Code: 154
 Marine pollutant: no

SECTION 15: REGULATORY INFORMATION

EPCRA – Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Methanol	67-56-1	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Acute Health Hazard

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right to Know

Water	7732-18-5
Sodium methyl silicate	16589-43-8
Methanol	67-56-1

California Prop. 65. WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.
Methanol 67-56-1

The ingredients of this product are reported in the following inventories:

NZIoC: All ingredients listed or exempt.

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances

AICS: All ingredients listed or exempt.

IECSC: All ingredients listed or exempt.

ENCS/ISHL: All components are listed on ENCS/ISHL or exempted from inventory listing.

KECI: All ingredients listed, exempt or notified.

PICCS: All ingredients listed or exempt.

DSL: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

TCSI: All ingredients listed or exempt.

SECTION 16: OTHER INFORMATION

Further information

NFPA:

HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

**0 = not significant, 1 = Slight, 2= Moderate,
3 = High 4 = Extreme, * = Chronic**

Full text of other abbreviations

ACGIH: USA, ACGIH Threshold Limit Values (TLV)
ACGIH BEI: ACGIH – Biological Exposure Indices (BEI)
NIOSH REL: USA. NIOSH Recommended Exposure Limits
OSHA Z-1: USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
ACGIH / TWA: 8-hour, time-weighted average
ACGIH / STEL: Short-term exposure limit
NIOSH REL / TWA: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST: STEL – 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA: 8-hour time weighted average

AICS – Australian Inventory of Chemical Substance; ASTM – American Society for the Testing of Materials; bw – Body weight; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; CMR – Carcinogen, Mutagen or Reproductive Toxicant; DIN – Standard of the German Institute for Standardization; DOT – Department of Transportation; DSL – Domestic Substance List (Canada); EXc – Concentration associated with x% response; EHS – Extremely Hazardous Substance; ELx – Loading rate associated with x% response; EmS – Emergency Schedule; ENCS – Existing and New Chemical Substance (Japan); ErCx – Concentration associated with x% grown rate response; ERG – Emergency Response Guide; GHS – Globally Harmonized System; GLP – Good Laboratory Practice; HMIS – Hazardous Materials Identification System; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association, IBC – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 – Half maximal inhibitory concentration; ICAO – International Civil Aviation Organization; IECSC – Inventory of Existing Chemical Substances in China; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; ISHL – Industrial Safety and Health Law (Japan); ISO – International Organization for Standardization; KECI – Korea Existing Chemicals Inventory; LC50 – Lethal Concentration to 50% of a test population; LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL – International Convention for the Prevention of Pollution from Ships; MSHA – Mine Safety and Health Administration; n.o.s. – Not Otherwise Specified; NFPA – National Fire Protection Association; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; NOELR – No Observable Effect Lading Rate; NTP – National Toxicology Program; NZIoC – New Zealand Inventory of Chemicals; OECD – Organization for Economic Co-operation and Development; OPPTS – Office of Chemical Safety and Pollution Prevention; PBT – Persistent, Bioaccumulative and Toxic substance; PICCS – Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR – (Quantitative) Structure Activity Relationship; RCRA – Resource Conservation and Recovery Act; REACH – Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ – Reportable Quantity; SADT – Self-Accelerating Decomposition Temperature; SARA – Superfund Amendments and Reauthorization Act; SDS – Safety Data Sheet; TCSI – Tawain Chemical Substance Inventory; TSCA – Toxic

EFFECTIVE DATE: June 1, 2018

Substances Control (United States); UN – United Nations; UNRTDG – United Nations Recommendations on the Transport of Dangerous Goods; vPvB – Very Persistent and Very Bioaccumulative.

SOURCES OF KEY DATA USED TO COMPILE THE MATERIAL SAFETY DATA SHEET: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>.

REVISION DATE: Original

DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided related only to the specific material identified at the top of this SDA and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.