

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FORMULA 1
PRODUCT NO: TM102
RECOMMENDED USE: Automotive Motor Wash

COMPANY: TRANS-MATE, INC.
13 Sterling Road
N. Billerica, MA 01862
USA
978-667-0100

EMERGENCY TELEPHONE NUMBER: Trans-Mate – 978-667-0100
CHEMTREC – 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION**Danger**

Causes skin burns and eye damage. Harmful if inhaled. May cause drowsiness or dizziness. May cause respiratory irritation. May cause damage to organs (liver, kidney, central nervous system) through prolonged or repeated exposure. Suspected of causing cancer. May be fatal if swallowed and enters airways. Flammable liquid and vapor.

Wear protective gloves and eye protection. Do not breathe vapors. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat drink or smoke when using this product. Keep away from heat and flames. Keep container tightly closed. Use explosion proof equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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 on skin: Wash with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a doctor.

If swallowed: Rinse mouth. Immediately call a doctor. Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.

If exposed or concerned: Get medical advice.

Get medical advice if you feel unwell.

In case of fire: Use foam/carbon dioxide/regular dry chemical/water to extinguish.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep cool.

Dispose of unused product and container in accordance with federal, state and local regulations.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS #	WEIGHT %
Solvent naphtha (petroleum) heavy aromatic	64742-94-5	5-15**
Petroleum distillates	8052-41-3	5-15**
Tall oil potassium salt	61790-44-1	5-10**
2-Butoxyethanol	111-76-2	1-5**
Nonylphenol ethoxylates	9016-45-9	1-5**
Potassium dodecylbenzenesulfonate	27177-77-1	1-5**
Sodium tripolyphosphate	7758-29-4	1-5**
Naphthalene	91-20-3	0.5-1.5**

*Identity of this ingredient is a trade secret

**Exact percentage of this ingredient is a trade secret

SECTION 4: FIRST AID MEASURES

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 on skin: Wash with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a doctor.

If swallowed: Rinse mouth. Immediately call a doctor. Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, dry chemical, carbon dioxide or "alcohol" foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion may produce noxious and irritating gases which will require fresh air source in fire fighting.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus and turnout gear as a general precaution.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use personal protective equipment; see Section 8.

Keep product from entering storm sewers and ditches that may lead to waterways.

Stop spill at source; dike and contain large spills and transfer to recovery container. Use absorbent for small spills and containerize.

See Section 13 for disposal

SECTION 7: HANDLING AND STORAGE

Handle according to good manufacturing and warehousing practices. Avoid contact with eyes, skin and clothing.

Store indoors between 40F/4C and 100F/38C

Use product only for intended use. Follow label directions.

Wash hands after handling.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT	CAS #	OSHA PEL (ppm or *mg.M ³) +=skin, c=ceiling	ACGIH TLV (ppm or *mg.M ³) +=skin, c=ceiling
Petroleum distillates	8052-41-3	100	100
2-Butoxyethanol	111-76-2	25+	25+
Naphthalene	91-20-3	10	15

EYES: Wear eye protection (i.e. chemical safety glasses with side shields or goggles). Contact lenses should not be worn.

SKIN: Chemical resistant clothing (i.e. gloves) is recommended.

RESPIRATORY PROTECTION: Not expected to be needed. Where over-exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.

VENTILATION: Local exhaust or general room ventilation is normally adequate.

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Tan liquid

ODOR: Petroleum distillate

ODOR THRESHOLD: NA

pH: 9-10

MELTING/FREEZING POINT: Approx. 32F/0C

BOILING POINT: APPROX 212F/100C

BOILING RANGE: NA

FLASH POINT (CC): 114F/46C

EVAPORATION RATE: Approx. that of water

FLAMMABILITY: Flammable

UPPER/LOWER FLAMMABILITY LIMITS: NA

UPPER/LOWER EXPLOSIVE LIMITS: NA

VAPOR PRESSURE: NA

VAPOR DENSITY: 4x air

RELATIVE DENSITY: 8.1 LB/GAL

SOLUBILITY: Soluble in Water

PARTITION COEFFICIENT: N-OCTANOL/WATER: NA

AUTO-IGNITION TEMPERATURE: NA

DECOMPOSITION TEMPERATURE: NA

VISCOSITY: Slightly viscous

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Stable

CHEMICAL STABILITY: Stable

POSSIBILITY OF HAZARDOUS REACTIONS: Low.

INCOMPATIBLE MATERIALS: Avoid oxidizers and reducers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and other gases.

SECTION 11: TOXICOLOGICAL INFORMATION

This product contains ingredients that are a reproductive hazard and can cause harm to the fetus.
 This product contains Naphthalene (95-63-6) which is listed by NTP and IARC, as a carcinogen.
 ACGIH classifies 2-butoxyethanol as a confirmed animal carcinogen with unknown relevance to humans; Group A3.
 This product contains no other ingredients at or about 0.1% that are listed by NTP, IARC, or OSHA as carcinogens.

SECTION 12: ECOLOGICAL INFORMATION

Ecological data for this chemical mixture is not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT		Not regulated when shipped by ground			-	-
DOT	UN1993	Flammable Liquid NOS (Petroleum Distillated Solution)	3	PGIII		Shipped by plane or boat

SECTION 15: REGULATORY INFORMATION

RTK Ingredients : Water (7732-18-5), Solvent naphtha (64742-94-5), Petroleum distillates (8052-41-3), Tall oil postassium salt (61790-44-1) 2-Butoxyethanol (111-76-2), Naphthalene (91-20-3)

SECTION 16: OTHER INFORMATION

NFPA 704

HAZARD RATING

4=Severe H=Health H=2

3=Serious F=Fire F=2

2=Moderate R=Reactivity R=0

1=Slight

0=Minimal

Prepared: February 11, 2015

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information related 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, unless specified in the text. Neither this data sheet nor any statement contained herein grants or extends any license, expressed or implied, in connection with patents issued or pending which maybe the property of the manufacturer or others. The information in this data sheet has been assembled by the manufacturer or his agent based on its own studies and on the work of others. Neither the manufacturer nor his agent makes any warranty, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. Neither the manufacturer nor his agent shall be held liable (regardless of fault) to the vendee, the vendee's employees or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information. Data is supplied for use only in connection with occupational safety and health.