

Safety Data Sheet

OSHA format Revision Number 0

Issuing Date Jun-01-2015 **Revision Date** Mar-08-2018

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name DETERGENT REAGENT 2

Other means of identification

Product Code(s) 6037 UN-No 1294

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals. Use as a laboratory reagent. Industrial (not for food or food contact

use).

Details of the supplier of the safety data sheet

LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone numbers

(CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION		
F	I-	
Skin corrosion/irritation	Category 2	
Reproductive toxicity	Category 2	
Specific target organ toxicity (single exposure)	Category 3	
Specific target organ toxicity (repeated exposure)	Category 2	
Aspiration toxicity	Category 1	
Physical hazards Flammable Liquids.	Category 2	

EMERGENCY OVERVIEW

DANGER

Hazard statements

Causes skin irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. .
Highly flammable liquid and vapor.



Appearance Clear, colorless liquid

Physical state liquid

Odor Aromatic solvent/toluene

Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not breathe dust /fume /gas /mist /vapors /spray. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep cool.

Response: IF exposed or concerned: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a poison center or doctor/physician. Do NOT induce vomiting. In case of fire: Use CO2, dry chemical, or foam for extinction

Storage:

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

Disposal:

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

Other Hazards

May be harmful if swallowed. Toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

Chemical name	CAS No	Weight-%
Toluene	108-88-3	>99

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing. Do not breathe dust /fume /gas /mist /vapors

/spray.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Call a

physician immediately.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Remove and isolate

contaminated clothing and shoes. Wash contaminated clothing before reuse. Call a

physician immediately.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If

symptoms persist, call a physician.

Ingestion Drink plenty of water. Never give anything by mouth to an unconscious person. Do not

induce vomiting without medical advice. Call a physician or poison control center

immediately.

Self-protection of the first aider Use personal protection recommended in Section 8. Ensure that medical personnel are

aware of the material(s) involved, take precautions to protect themselves and prevent

spread of contamination.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Vapors may travel to source of ignition and flash back. Flash back possible over considerable distance.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of

ignition. Use personal protection recommended in Section 8.

Environmental precautions See Section 12 for additional Ecological Information. Beware of vapors accumulating to

form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for containment A vapor suppressing foam may be used to reduce vapors. Contain and collect spillage with

non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Do not flush to sewer.

Methods for cleaning up Minimize the amount spilled and supress resultant vapors. After cleaning, flush away traces

with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Do not taste or

swallow. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with skin, eyes or clothing. Do not eat, drink or

smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat

and sources of ignition. Store away from strong acids and oxidizers. Keep out of the reach

of children.

Incompatible Products Strong oxidizing agents. NITRIC ACID.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Toluene	TWA: 20 ppm	TWA: 200 ppm	IDLH: 500 ppm
108-88-3		(vacated) TWA: 100 ppm	TWA: 100 ppm
		(vacated) TWA: 375 mg/m ³	TWA: 375 mg/m ³
		(vacated) STEL: 150 ppm	STEL: 150 ppm
		(vacated) STEL: 560 mg/m ³	STEL: 560 mg/m ³
		Ceiling: 300 ppm	•

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations

Ventilation systems. Use explosion-proof electrical/ventilating/lighting/equipment.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and body protection Gloves & Lab Coat. Impervious clothing. Protective gloves. Nitrile rubber.

Hygiene MeasuresDo not eat, drink or smoke when using this product. Take off contaminated clothing and

wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state liquid

Appearance Clear, colorless liquid Odor Aromatic solvent/toluene

Color Clear, colorless

Property Values Remarks • Method

pН

Melting point / freezing point No information available

Boiling point / boiling range 110 °C 231 °F

Flash point Not Applicable 4 °C (based on .?)

Evaporation rate

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: 7.1
Lower flammability limit: 1.1
Vapor pressure 3.8
Vapor density 3.1

Issuing Date Jun-01-2015

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Specific gravityNo information availableWater solubilityNo information availableSolubility in other solventsNo information availablePartition coefficientNo information availableAutoignition temperature480 °C

Decomposition temperature
Kinematic viscosity
No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

StabilityStable under recommended storage conditions. **Hazardous polymerization**Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Strong oxidizing agents. NITRIC ACID.

Hazardous decomposition products Carbon oxides (COx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component identification

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Toluene	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h
108-88-3			- '

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Toluene	Not Established	Group 3	Not Established	Not Established
108-88-3				

ATEmix (oral) 2,889.00 mg/kg **ATEmix (dermal)** 13,333.00 mg/kg mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Toluene	12.5: 72 h Pseudokirchneriella	11.0 - 15.0: 96 h Lepomis	5.46 - 9.83: 48 h Daphnia magna
108-88-3	subcapitata mg/L EC50 static	macrochirus mg/L LC50 static	mg/L EC50 Static 11.5: 48 h
	433: 96 h Pseudokirchneriella	14.1 - 17.16: 96 h Oncorhynchus	Daphnia magna mg/L EC50
	subcapitata mg/L EC50	mykiss mg/L LC50 static 15.22 -	
		19.05: 96 h Pimephales promelas	
		mg/L LC50 flow-through 5.89 -	
		7.81: 96 h Oncorhynchus mykiss	
		mg/L LC50 flow-through 50.87 -	
		70.34: 96 h Poecilia reticulata	

mg/L LC50 static 12.6: 96 h	
Pimephales promelas mg/L LC50	
static 28.2: 96 h Poecilia	
reticulata mg/L LC50 semi-static	
5.8: 96 h Oncorhynchus mykiss	
mg/L LC50 semi-static 54: 96 h	1
Oryzias latipes mg/L LC50 static	

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Toluene	2.65
108-88-3	

13. DISPOSAL CONSIDERATIONS

Disposal Methods Should not be released into the environment. Dispose of contents/containers in accordance

with local regulations.

Contaminated packaging Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Toluene	U220	Included in waste streams:	Not Established	U220
108-88-3		F005, F024, F025, F039,		
		K015, K036, K037, K149,		
		K151		

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene 108-88-3	Not Established	Not Established	Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	Not Established

Chemical name	California Hazardous Waste Status
Toluene	Toxic
108-88-3	Ignitable

14. TRANSPORT INFORMATION

DOT

UN-No 1294
Proper shipping name TOLUENE
Hazard Class 3
Packing group ||

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA

UN-No 1294 Proper shipping name TOLUENE

Hazard Class 3
Packing group ||

IMDG/IMO

UN-No 1294 Proper shipping name TOLUENE

Hazard Class 3 Packing group II

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS IECSC** Complies Complies **KECL** Complies **PICCS AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Sudden release of pressure hazard

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Toluene	1.0
108-88-3	
SARA 311/312 Hazard Categories	
Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No

No

No

CWA (Clean Water Act)

Reactive Hazard

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40

CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Toluene 108-88-3	1000 lb	Х	X	X

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

	Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Γ	Toluene	1000 lb 1 lb	Not Established	RQ 1000 lb final RQ
	108-88-3			RQ 454 kg final RQ RQ 1 lb final
				RQ
-				RQ 0.454 kg final RQ

US State Regulations

California Proposition 65



WARNING: Reproductive Harm - www.P65Warnings.ca.gov

Chemical name	California Proposition 65
Toluene	Developmental
108-88-3	·

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Toluene	X	X	Х
108-88-3			

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

Chemical name	CPSC (Consumer Product Safety Commission) - Specially Regulated	
	Substances	
Toluene	Special labeling, 16 CFR 1500.14	
108-88-3		
16. OTHER INFORMATION		

16. OTHER INFORMATION

NFPA Health hazard 2 Flammability 3 Instability 0 Physical and Chemical Hazards N/A

Health hazard 2

Flammability 3

Stability 0



Issuing Date Revision Date Reason for revision Jun-01-2015 Mar-08-2018

SDS sections updated 15 16

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief 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 as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet