



american gas & chemical co. ltd.
220 PEGASUS AVE
NORTHVALE, NEW JERSEY 07647
201-767-7300, FAX 201-767-1741

Safety Data Sheet

Issue Date: 03-Jan-2002

Revision Date: 21-Apr-2022

Version 1

1. IDENTIFICATION

Product Identifier

Product Name RD58 - Red Tracer Dye – Liquid Fuel

Other means of identification

SDS # AGC-223

Product Code RD-58

Other Information Package type: 2oz Bottles, 1 gallon can, 5 gal pail, 55 gallon drum.

Recommended use of the chemical and restrictions on use

Recommended Use Red Tracer Dye.

UN/ID No. UN1993

Details of the supplier of the safety data sheet

Manufacturer Address

AMERICAN GAS & CHEMICAL COMPANY, LTD
220 Pegasus Avenue
Northvale NJ 07647

Emergency Telephone Number

Company Phone Number Phone: 201-767-7300 Fax: 201-767-1741
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Dark Red Liquid

Physical State Liquid

Odor Aromatic

Classification

Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Carcinogenicity	Category 2
Skin corrosion/irritation	Category 2
Flammable Liquids	Category 3

Hazards Statements

May be harmful in contact with skin
Causes skin irritation
Harmful if inhaled
Suspected of causing cancer
Flammable liquid and vapor

Signal Word

Warning



Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wash face, hands and any exposed skin thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
Keep away from sparks/open flames/hot surfaces. No Smoking.
Ground/bond container and receiving equipment.
Use only on non-sparking tools.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Precautionary Statements - Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician.
If exposed or concerned: Get medical advice/attention.
Use personal protective equipment if required.

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
C.I. Solvent Red 164	92257-31-3	50-60
Xylene	1330-20-7	30-40
Ethylbenzene	100-41-4	5-10

4. FIRST-AID MEASURES**First Aid Measures****General Advice**

Immediate medical attention is required. Show this material safety data sheet to the doctor in attendance. If symptoms persist, call a physician.

Eye Contact

Immediately flush with plenty of water. Remove contact lenses and continue to flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

Skin Contact

In case of contact, wash skin thoroughly with soap and water. Remove any contaminated clothing and wash before reuse. If skin irritation persists, call a physician.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

Ingestion

If ingested, do not induce vomiting. Call a physician immediately.

Most important symptoms and effects**Symptoms**

Inhalation of vapors or oil mist may cause mild irritation of the upper respiratory tract. Prolonged or repeated skin contact may lead to dermatitis, oil acne or folliculitis. Contact may cause minimal irritation. Ingestion may result in vomiting.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Unsuitable Extinguishing Media Do not use solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

Flammable.

Explosion Data

Sensitive to static discharge.

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. Cool exposed containers with water spray. Avoid breathing vapor or fumes.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Ventilate confined spaces. Remove all sources of ignition. Use caution judgment when cleaning large spills. Use personal protection equipment. Keep people away from and upwind of spill/leak.

For Emergency Responders	Follow applicable OSHA regulations (29 CFR 1910.120).
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Soak up with absorbent material.
Methods for Clean-Up	Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation. Take necessary action to avoid static electricity discharge. Do not use mobile phones during handling.
--------------------------------	---

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from incompatible materials. Store locked up.
Incompatible Materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962(11 th Cir., 1992)
----------------------------	---

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
XYLENE 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m ³	No information available
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m ³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³

NIOSH IDLH *Immediately Dangerous to Life or Health***Appropriate engineering controls**

Engineering Controls	Showers, Eyewash Stations, Ventilation Systems. Apply technical measures to comply with the occupational exposure limits. Process enclosure and/or ventilation systems.
-----------------------------	---

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Use tightly fitted safety goggles or face shield when contact may occur. Have Eyewash stations available.
Skin and Body Protection	Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact. Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.
Respiratory Protection	Use supplied-air respiratory protection in confined or enclosed spaces, if exposure may or does occur.
General Hygiene Considerations	Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Dark Red Liquid	Odor	Aromatic
Color	DarkRed	Odor Threshold	Not determined
Property	Values	Remarks • Method	
pH	Not applicable		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	~110°C / 230°F		
Flash Point	28°C / 82°F		
Evaporation Rate	Not determined	COC ASTM D92	
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	Not applicable		
Vapor Density	Not applicable		
Specific Gravity	Not applicable		
Water Solubility	Not applicable		
Solubility in other solvents	Not applicable		
Partition Coefficient	Not applicable		
Auto-ignition Temperature	Not applicable		
Oxidizing Properties	Not determined		
VOC Content (%)	61.65		

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children. Heat, flames, static electricity and sparks. Take precautionary measures against static discharges. Avoid temperatures above flash point.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

Thermal decomposition products are dependent on the combustion conditions. May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Avoid contact with eyes.
Skin Contact	Irritating to skin.
Inhalation	Harmful if inhaled.
Ingestion	May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Xylene 1330-20-7	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	47635 mg/L (Rat) 4 h
Ethylbenzene 100-41-4	3500 mg/kg (Rat)	15354 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritation to skin.

Sensitization No information available.

Germ Cell Mutagenicity No information available.

Carcinogenicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Xylene 1330-20-7		Group 3		
Ethylbenzene 100-41-4	A3	Group 2B		X

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity

Unknown acute toxicity	59 percent of the mixture consists of ingredients of unknown acute toxicity.
ATEmix (oral)	10040 mg/kg
ATEmix (dermal)	3276 mg/kg
ATEmix (inhalation-gas)	8750 mg/l
ATEmix (inhalation-dust/mist)	3.7 mg/l

12. ECOLOGICAL INFORMATION**Ecotoxicity**

0% of the mixture consists of unknown hazards to the aquatic environment.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
XYLENE 1330-20-7		13.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.661 - 4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 13.5 - 17.3: 96 h Oncorhynchus mykiss mg/L LC50 13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through 19: 96 h Lepomis macrochirus mg/L LC50 7.711 - 9.591: 96 h Lepomis macrochirus mg/L LC50 static 23.53 - 29.97: 96 h Pimephales promelas mg/L LC50 static 780: 96 h Cyprinus carpio mg/L LC50 semi-static 780: 96 h Cyprinus carpio mg/L LC50 30.26 - 40.75: 96 h Poecilia reticulata mg/L LC50 static		3.82: 48 h water flea mg/L EC50 0.6: 48 h Gammarus lacustris mg/L LC50
Ethylbenzene 100-41-4	4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 438: 96 h Pseudokirchneriella subcapitata mg/L EC50 2.6 - 11.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 1.7 - 7.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	11.0 - 18.0: 96 h Oncorhynchus mykiss mg/L LC50 static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 7.55 - 11: 96 h Pimephales promelas mg/L LC50 flow-through 32: 96 h Lepomis macrochirus mg/L LC50 static 9.1 - 15.6: 96 h Pimephales promelas mg/L LC50 static 9.6: 96 h Poecilia reticulata mg/L LC50 static	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	1.8 - 2.4: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

No information available.

Bioaccumulation

Not determined.

Chemical Name	Log Pow
Xylene 1330-20-7	3.15
Ethylbenzene 100-41-4	3.118

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods**Disposal of Wastes**

Should not be released into the environment. This material, as supplied, is hazardous waste according to federal regulations (40 CFR 261). Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Do not re-use empty containers. Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number D001 U239

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
XYLENE 1330-20-7		Included in waste stream: F039		U239
Ethylbenzene 100-41-4		Included in waste stream: F039		

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
XYLENE 1330-20-7	Toxic Ignitable
Ethylbenzene 100-41-4	Toxic Ignitable

14. TRANSPORTATION

EmS No. F-E, S-E
Description UN1993, flammable liquid, n.o.s., (ethyl benzene, xylene), 3 , PG III

RID

UN/ID no UN1993
 Proper shipping name FLAMMABLE LIQUID, N.O.S.
 Hazard Class 3
 Packing Group III
 Classification code F1
 Description UN1993, Flammable liquid, n.o.s (XYLENE, Ethylbenzene), 3, III

ADR

UN/ID no UN1993
 Proper shipping name FLAMMABLE LIQUID, N.O.S.
 Hazard Class 3
 Packing Group III
 Classification code F1
 Tunnel restriction code (D/E)
 Description UN1993, Flammable liquid, n.o.s (XYLENE, Ethylbenzene), 3, III, (D/E)
 ADR/RID-Labels 3

ADN

UN/ID no UN1993
 Proper shipping name FLAMMABLE LIQUID, N.O.S.
 Hazard Class 3
 Packing Group III
 Classification code F1
 Special Provisions 274, 601, 640E
 Description UN1993, Flammable liquid, n.o.s (XYLENE, Ethylbenzene), 3, III
 Limited quantity 5 L
 ventilation VE01

DOT

UN/ID no	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	III
Reportable Quantity (RQ)	Xylenes isomers and mixture: RQ kg= 137.58, Ethylbenzene: RQ kg= 5675.00
Description	UN1993, flammable liquid, n.o.s., (ethyl benzene, xylene), 3 , PG III
Emergency Response Guide Number	128

TDG

UN/ID no	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	III
Description	UN1993, Flammable liquid, n.o.s (XYLENE, Ethylbenzene), 3, III

MEX

UN/ID no	UN1993
Proper shipping name	Flammable liquids, n.o.s.
Hazard Class	3
Packing Group	III
Description	UN1993, Flammable liquid, n.o.s (XYLENE, Ethylbenzene), 3, III

ICAO

UN/ID no	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	III
Description	UN1993, Flammable liquid, n.o.s, 3, III

IATA

UN/ID no	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	III
Description	UN1993, flammable liquid, n.o.s., (ethyl benzene, xylene), 3 , PG III

IMDG

UN/ID no	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	III

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
EINECS/ELINCS	Listed
DSL	Listed
NDSL	Not Determined
PICCS	Listed
ENCS	Not Determined
IECSC	Listed
AICS	Not Determined
KELC	Listed
NZIoC	Listed

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

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund amendments and Regulation Act of 1986 (SARA). This product contains a chemical which is 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 %
Xylene 1330-20-7	1.0
Ethylbenzene 100-41-4	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	YES
Chronic Health Hazard	YES
Fire Hazard	YES
Sudden Release of pressure hazard	NO
Reactive Hazard	NO

Clean Water Act

Chemical Name	CWA- Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Xylene	100lb			X
Ethylbenzene	1000lb	X	X	X

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Xylene	100lb		RQ 100lb final RQ RQ 45.4 kg final RQ
Ethylbenzene	1000lb		RQ 1000lb final RQ RQ 454 kg final RQ

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
Ethylbenzene 100-41-4	Carcinogen

US Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Xylene	X	X	X	X	
Ethylbenzene	X	X	X	X	

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	2	3	0	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	3	0	H

Issue Date: 03-Jan-2002
Revision Date: 21-Apr-2022
Revision Note: 3-Year Update

Disclaimer

Information in the SDS is provided in good faith, but we assume no liability for its use or misuse. It is furnished without any warranty of merchantability or any other warranty, express or implied. We shall not be liable for any claims, losses or damages of any vendee or third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however they arise. Users must make their own investigations to determine suitability.

End of Safety Data Sheet