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SAFETY DATA SHEET

Issue Date: 30 November 2015

Revision Date: 30 November 2015

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: DRY GAS

Product Description: FUEL: ADDITIVE

Other Means of Identification

Product # 082
Synonyms None

Details of the Supplier of the Safety Data Sheet

Company Name CHEMCO INDUSTRIES, INC.
5731 Manchester Avenue
St. Louis, MO 63110
www.chemcoindustries.com
314-647-1888
1-800-854-4236 (to Reorder)

Emergency Telephone Number

Emergency Telephone CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification (GHS-US)

Flam. Liq. 3	H226
Acute Tox. 4 (Oral)	H302
Acute Tox 4 (Inhal: Dus, Mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2B	H320
Muta. 1B	H340
Carc. 1B	H350
STOT SE 3	H335
STOT SE 3	H336
Asp. Tox. 1	H304

*Full text of H-phrases: see section 16

GHS-US Labeling

Hazard pictograms (GHS-US):



Signal Word (GHS-US): Danger

Hazard Statements (GHS-US):

- Flammable liquid and vapor
- Harmful if swallowed or inhaled
- Causes skin irritation
- Causes eye irritation
- May cause respiratory irritation
- May cause drowsiness or dizziness
- May cause genetic defects
- May cause cancer

Precautionary statements (GHS-US):

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, open flames, sparks – No smoking
- Keep container tightly closed

Ground/bond container and receiving equipment
 Use explosion-proof electrical, lighting equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Avoid breathing mist, spray
 Wash thoroughly after handling
 Don not eat, drink, or smoke when using this product
 Use only outdoors or in a well-ventilated area
 Wear eye protection, protective clothing, protective gloves
 If swallowed: Immediately call a doctor, a POISON CENTER
 If on skin or in hair: Take off immediately all contaminated clothing; rinse skin with soap and water
 If inhaled: Remove person to fresh air and keep comfortable for breathing
 If in eyes: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing
 If exposed or concerned: Get medical advice/attention
 Call a doctor, a POISON CENTER if you feel unwell
 Specific treatment (see First Aid Measures on label)
 Rinse mouth
 DO NOT induce vomiting
 If skin irritation occurs: Get medical advice/attention
 If eye irritation occurs: Get medical advice/attention
 Take off contaminated clothing and wash before reuse
 In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, foam to extinguish
 Store in a well-ventilated place
 Keep container tightly closed
 Keep cool
 Store locked up
 Dispose of contents/container to comply with local/regional/national/international regulations

Other hazards: No additional information available

Unknown acute toxicity (GHS-US): Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not applicable

*Full text of H-phrases: see section 16

Mixture:

Name	Product identifier	%	Classification (GHS-US)
SOLVESSO 100	(CAS No) 64742-95-6	40-70	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304
Trimethylbenzene	(CAS No) 25551-13-7	30-60	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Asp. Tox. 1, H304
Solvent naphtha (petroleum), heavy arom.: Kerosine – unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approx. 165°C to 290°C (330°F to 554°F)]	(CAS No) 64742-94-5	15-40	Asp. Tox. 1, H304
1,2,4-trimethylbenzene	(CAS No) 95-63-6	10-30	Flam. Liq. 3, H226 Acute Tox. 4 (Inhale), H332 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Chronic 2, H411
Cumene	(CAS No) 98-82-8	3-7	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304
Xylene	(CAS No) 1330-207	0.5-5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312

			Acute Tox. 4 (Inhale), H4332 Skin Irrit. 2, H315
Naphthalene	(CAS No) 91-20-3	1-5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Carc. 1B, H350 Aquatic Acute 1, H400
Cymenes	(CAS No) 25155-15-1	0.5-1.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Vinyl acetate	(CAS No) 108-05-4	0.1-1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhale), H332 Carc. 2, H351 STOT SE 3, H335

4. FIRST AID MEASURES

Description of first aid measures:

First-aid measures general:

If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation:

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact:

Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion:

Immediately call a POISON CENTER or doctor/physician. Rinse mouth out with water. DO NOT induce vomiting.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries:

If you feel unwell, seek medical advice. Harmful if inhaled. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer.

Symptoms/injuries after inhalation:

Irritation of the respiratory tract. May cause dizziness. Central nervous system depression.

Symptoms/injuries after skin contact:

Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact:

Causes eye irritation.

Symptoms/injuries after ingestion:

May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Cramps. Nausea. Vomiting.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media:

Dry chemical powder. Carbon dioxide. Alcohol-resistant foam.

Special hazards arising from the substance or mixture:

Fire Hazard:

Flammable liquid and vapor

Explosion Hazard

Vapors may travel long distances along ground before igniting/flashback to vapor source.

Reactivity:

Upon combustion: CO and CO₂ are formed.

Advice for firefighters:

Firefighting instructions:

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

Protection during firefighting:

Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

General measures:

Remove ignition sources. Use special care to avoid static electric charges.

For non-emergency personnel:

Protective equipment:

Gloves. Protective goggles. Protective clothing.

Emergency procedures:

Evacuate unnecessary personnel. No naked flames or sparks.

For emergency responders:

Protective equipment: Equip cleanup crew with proper protection.
 Emergency procedures: Stop leak if safe to do so. Stop release. Ventilate area.

Environmental precautions: Avoid release to the environment. Prevent entry to sewers and public waters.

Methods and material for containment and clean up:

For containment: Contain released substance, pump into suitable containers.
Methods for cleaning up: This material and its container must be disposed of in a safe way, and as per local legislation. Take up liquid spill into inert absorbent material, e.g.: sand/earth. Clean contaminated surfaces with a soap solution.

Reference to other sections: No additional information available.

7. HANDLING AND STORAGE

Precautions for safe handling:

Precautions for safe handling: Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink, or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care. Keep away from sources of ignition – No smoking. Take precautions against electrostatic charges. Obtain special instructions before use. Remove contaminated clothing immediately.

Hygiene measures: Wash thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities:

Technical measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage conditions: Keep container closed when not in use. Keep only in original container in a cool, well-ventilated place away from sparks, open flames, excessive heat.

Incompatible products: Strong oxidizers. Acids.

Incompatible materials: Sources of ignition. Heat sources.

Storage area: Store away from heat. Store in a cool area. Store in a dry area. Store in a well-ventilated place. Keep locked up.

Special rules on packaging: Meet the legal requirements. Keep only in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

1,2,4-trimethylbenzene (95-63-6)		
ACGIH	ACGIH TWA (ppm)	25 ppm
ACGIH	ACGIH STEL (ppm)	25 ppm
Cumene (98-82-8)		
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	Eye, skin, & URT irr; CNS impair
Xylene (1330-20-7)		
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	URT irr; CNS impair
Naphthalene (91-20-3)		
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	ACGIH STEL (ppm)	10 ppm
ACGIH	Remark (ACGIH)	Hematologic eff; URT& eye irr; A3
Vinyl acetate (108-05-4)		
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	URT, eye, & skin irr; CNS

Exposure controls:

Personal protective equipment: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective clothing. Safety glasses/goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Liquid
 Appearance: Hazy. Colorless Liquid
 Odor: Characteristic Solvent Odor

Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	120° F Closed Cup
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Explosion 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
Specific gravity/density	0.89 g/ml
Solubility	Insoluble in water
Log Pow	No data available
Log Kow	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	No data available

10. STABILITY AND REACTIVITY

<u>Reactivity:</u>	Upon combustion: CO and CO ₂ are formed.
<u>Chemical stability:</u>	Stable under normal conditions.
<u>Possibility of hazardous reactions:</u>	Refer to Section 10.1 on Reactivity.
<u>Conditions to avoid:</u>	No additional information available.
<u>Incompatible materials:</u>	Oxidizing agents. Acids.
<u>Hazardous decomposition products:</u>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity: Oral: Harmful if swallowed. Inhalation: Dust, mist: Harmful if inhaled.

SOLVESSO 100 (64742-95-6)	
LD50 oral rat	>2000 mg/kg (Rat)
LD50 dermal rabbit	>3160 mg/kg (Rabbit)
Trimethylbenzene (25551-13-7)	
LD50 oral rat	500 mg/kg
1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	>5000 mg/kg (Rat: Equivalent or similar to OECD 401; Literature; 6000 mg/kg bodyweight; Rat: Experimental value)
LD50 dermal rat	>3440 mg/kg (Rat; Read-across; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	18 mg/l/4h (Rat)
Xylene (1330-20-7)	
LC50 inhalation rat (ppm)	4550 ppmV/4h
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (gases)	4550.000 ppmV/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
Cymenes (25155-15-1)	
LD50 oral rat	>2000 mg/kg (Rat)
Naphthalene (91-20-3)	
LD50 oral rat	>1100 mg/kg (Rat)
LD50 dermal rat	>2500 mg/kg (Rat)
LD50 dermal rabbit	>20000 mg/kg (Rabbit)

ATE CLP (oral)	500.000 mg/kg body weight
Vinyl acetate (108-05-4)	
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l.4h

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes eye irritation.
Respiratory or skin sensitization: Not classified.
Germ cell mutagenicity: Not classified.
Carcinogenicity: May cause cancer.

Cumene (98-82-8)	
IARC group	2B – Possibly Carcinogenic to Humans
Xylene (1330-20-7)	
IARC group	3 – Not Classifiable
Naphthalene (91-20-3)	
IARC group	2B – Possibly Carcinogenic to Humans
National Toxicology Program (NTP) Status	3 – Reasonably anticipated to be Human Carcinogen
Vinyl acetate (108-05-4)	
IARC group	2B – Possibly Carcinogenic to Humans

Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation: Irritation of the respiratory tract. May cause drowsiness or dizziness. Central nervous system depression.
Symptoms/injuries after skin contact: Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/injuries after eye contact: Causes eye irritation.
Symptoms/injuries after ingestion: May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Cramps. Nausea. Vomiting.

12. ECOLOGICAL INFORMATION

Toxicity:

SOLVESSO 100 (64742-95-6)	
LC50 fish 1	18 mg/l (Pisces)
EC50 Daphnia 1	21 ng/l (Daphnia sp.)
Threshold limit algae 1	1 – 10, Algae
1,2,4-trimethylbenzene (95-63-6)	
LC50 fish 1	7.72 mg/l (96 h: Pimephales promelas; Lethal)
LC50 fish 2	18 mg/l (48 h: Oryzias latipes)
Threshold limit algae 1	1 mg/l (72 h: Algae)
Threshold limit algae 2	2.356 mg/l (96 h: Algae)
Naphthalene (91-20-3)	
LC50 fish 1	1.99 mg/l (96 h: Pimephales promelas)
EC50 Daphnia 1	2.16 mg/l (48 h: Daphnia magna)
EC50 other aquatic organisms 1	2.96 mg/l (4 h: Selenastrum capricornutum)
LC50 fish 2	0.11 mg/l (96 h: Oncorhynchus mykiss)
TLM Fish 1	150 mg/l (96 h: Lepomis macrochirus: Cool water)
TLM fish 2	1.24 ppm (96 h: Oncorhynchus gorboscha)
Threshold limit algae 1	0.4 mg/l (72 h: Skeletonema costatum: Growth rate)

Persistence and degradability:

SOLVESSO 100 (64742-95-6)	
Persistence and degradability	Readily biodegradable in water.
1,2,4-trimethylbenzene (95-63-6)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photodegradation in the air.
Chemical oxygen demand (COD)	0.44 g O /g substance
Cymenes (25155-15-1)	
Persistence and degradability	Biodegradability in water: no data available.
Naphthalene (91-20-3)	

Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs in the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0 g O /g substance
Chemical oxygen demand (COD)	0.22 g O /g substance
ThOD	2.99 g O /g substance

Bioaccumulative potential:

SOLVESSO 100 (64742-95-6)	
Log Pow	>3
1,2,4-trimethylbenzene (95-63-6)	
BCF fish 1	31 – 275 (8 weeks; Cyprinus carpio)
Log Pow	3.63 – 4.09 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5)
Cymenes (25155-15-1)	
Bioaccumulative potential	No bioaccumulation data
Naphthalene (91-20-3)	
BCF fish 1	23 168 (8 weeks; Cyprinus carpio)
BCF fish 2	40 – 300 (672 h; Oncorhynchus mykiss)
BCF other aquatic organisms 1	331 (360 h; Ostreidae)
BCF other aquatic organisms 2	130 (24 h; Chlorella sp.)
Log Pow	3.30 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500)

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

Department of Transportation (DOT)**Additional information:**

Other information: When transported by ground in non-bulk containers, this product utilizes the exception found under 49 CFR 173.150.

ADR:

No additional information available.

Transport by sea:

No additional information available.

Air Transport:

No additional information available.

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

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) or 1986 and 40 CFR Part 372.

1,2,4-trimethylbenzene	CAS No 95-63-6	10-30
Cumene	CAS No 98-82-8	3-7
Xylene	CAS No 1330-20-7	0.5-5
Naphthalene	CAS No 91-20-3	1-5
Vinyl acetate	CAS No 108-05-4	0.1-1

1,2,4-trimethylbenzene (95-63-6)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
Cumene (98-82-8)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
Xylene (1330-20-7)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
Naphthalene (91-20-3)	

Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
Vinyl acetate (108-05-4)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
SARA Section 302 Threshold Planning Quantity	1000 lb

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the State of California to cause cancer and /or reproductive toxicity.

16. OTHER INFORMATION

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

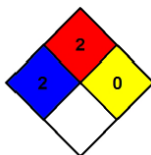
Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (Inhalation) Category 4
Acute Tox. 4 (Inhalation: dust, mist)	Acute toxicity (Inhalation: dust, mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 2	Flammable liquids Category 2
Flam Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Muta. 1B	Germ cell mutagenicity Category 1B
Skin Irrit. 2	Skin Corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard: 2 – Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



Disclaimer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendee or users assume all risks associated with the use of this material.