Conforms to HazCom 2012/United States



SAFETY DATA SHEET

233G Wet-Sol® Gro

Section 1. Identification

GHS product identifier : 233G Wet-Sol® Gro

Product type : Liquid

Identified uses : Non-ionic surfactant, spreader sticker, soil penetrant, adjuvant

Supplier's details: Schaeffer Mfg. Company

102 Barton Street

Saint Louis, Missouri 63104

Tel: 314-865-4100 Fax: 314-865-4107

Toll Free: 1-800-325-9962 E-Mail: <u>safety@schaefferoil.com</u> Web: www.schaefferoil.com

Emergency Phone Number: +1 314 865-4105 (24-hour response number)

(with hours of operation)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Classification of the : SKIN CORROSION/IRRITATION – Category 2

substance or mixture SERIOUS EYE DAMAGE/ EYE IRRITATION – Category 2A

AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms :

 \diamondsuit



Signal word : Warning

Hazard statements : Causes serious eye irritation.

Causes skin irritation.

Toxic to aquatic life with long lasting effects.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is

needed, have product container or label at hand.

Prevention : Wear protective gloves. Wear eye or face protection. Avoid release to the

environment. Wash hands thoroughly after handling.

Response

: Collect spillage. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage Disposal

Not applicable.Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture		
Ingredient Name	%	CAS number
Nonylphenol, branched, ethoxylated	10-20	68412-54-4
Nonylphenol polyethylene glycol ether	5-10	127087-87-0
Polyethylene glycol	0.1-1	25322-68-3
Polyoxyethylene dinonylphenol	0.1-1	9014-93-1
Copper	0-0.1	7440-50-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upp and lower eyelids. Check for and remove any contact lenses. Continue rinse for at least 20 minutes. Get medical attention.	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It is be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,tie, belt or waistband.	st nay
Skin contact	: Flush contaminated skin with plenty of water. Continue to rinse for at le 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.	east
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, gives small quantities of water to drink. Stop if the exposed person feels sick vomiting may be dangerous. Do not induce vomiting unless directed to so by medical personnel. If vomiting occurs, the head should be kept loso that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to all unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	/e as do ow e

Section 4. First aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes skin irritation.

Ingestion: Irritating to mouth, throat and stomach.

Over-exposure signs/symptons

Eye contact: Advers symptoms may include the following:

pain or irritation

watering redness

Inhalation : No known significant effects or critical hazards.Skin contact : Adverse symptoms may include the following:

irritation redness

Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if

large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable

training. It may be dangerous to the person providing aid to give mouth-

to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: High volume water jet.

Specific hazards arising from

the chemical

: This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Carbon monoxide and Carbon dioxide.

Special protective actions for

fire-fighters

: No special measures are required.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or Mist. Provide adequate ventilation. Wear appropriate respirator when Ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also information in "For non-emergency personnel."

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to all applicable Federal, State, Provincial and local authorities and/or the United States National Response Center at (800) 424-8802 as appropriate or required.

Methods and materials for containment and clean up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do no reuse container.

Section 7. Handling and storage

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep away from heat and sources of ignition. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Nonylphenol, branched, ethoxylated	None.
Nonylphenol polyethylene glycol ether	None.
Polyethylene glycol	TWA: 10mg/m ³
	TWA: 5 mg/m³ (aerosol)
Polyoxyethylene dinonylphenol	None.
Copper	ACGIH TLV (United States, 4/2014)
	TWA: 1 mg/m ³ , (Cu) 8 hours. Form: Dusts and mists
	TWA: 0.2 mg/m ³ 8 hours. Form: Fume
	OSHA PEL (United States, 2/2013)
	TWA: 1 mg/m ³ 8 hours. Form: Dusts and mists
	TWA: 0.1 mg/m ³ 8 hours. Form: Fume
	NIOSH REL (United States, 10/2013)
	TWA: 1 mg/m ³ , (Cu) 10 hours. Form: Dusts and mists

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 8. Exposure controls and personal protection

Eye/face protection : Wear eye protection such as safety glasses, chemical goggles, or face

shields if engineering controls or work practices are not adequate to prevent

eve contact.

Skin protection

Hand protection : Use nitrile or oil resistant gloves.

Body protection : Personal protective clothing such as gloves, aprons, boots and complete

> facial protection should be selected based on the task being performed and the risks involved. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and

other substances present when selecting protective clothing.

: Appropriate footwear and any additional skin protection measures should be Other skin protection

selected based on the task being performed and the risks involved.

Respiratory protection : If a risk assessment indicates that respiratory protection is required, use a

properly fitted, air-purifying or supplied air respirator that complies with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working

limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear.] Color : Pale green Odor : Slight. **Odor threshold** : Not available.

: 6 to 8. pН

Melting point/Dropping point : Not available. : >100°C (>212°F) **Boiling pint** : Not applicable. Flash point : Not available. **Evaporation rate** Flammability (solid, gas) : Not available. Lower and upper explosive (flammable): Not available.

Vapor pressure : Not available. Vapor density : >1 [Air = 1].

Relative density : 1.01

Solubility : Complete in water. Partition coefficient: n-octanol/water : Not available. **Auto-ignition temperature** : Not available.

: Not available. **Decomposition temperature Viscosity** : Not available. Volatility : Negligible. **VOC** content : Not available.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its

ingredients.

Chemical stability: The product is stable.

Possibility of hazardous: Under normal conditions or storage and use, hazardous reactions will not

occur.

Conditions to avoid : No specific data.

Incompatible materials: Reactive or incompatible with the following materials: Strong oxidizing

Agents and strong acids.

Hazardous decomposition: Carbon monoxide, carbon dioxide and other organic compounds.

products

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Exposure
Nonylphenol, ethoxylated	Eyes – Severe irritant	Guinea pig	20 mg
	Eyes – Severe irritant	Mouse	20 mg
	Eyes – Severe irritant	Rabbit	20 mg
	Skin – Mild irritant	Human	72 hours 15 intermittent
	Skin – Mild irritant	Rabbit	500 mg
Nonylphenol polyethylene		Rat	<5000 mg/kg
glycol ether			

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Section 11. Toxicological information

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes skin irritation.

Ingestion: Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : No known significant effects or critical hazards.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : No known significant effects or critical hazards.

effects

Potential delayed effects: No known significant effects or critical hazards.

Long term exposure

Potential immediate : No known significant effects or critical hazards.

effects

Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects

General
 Carcinogenicity
 Mutagenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Nonylphenol, ethoxylated	Acute EC50 12 mg/L	Algae – Pseudokirchneriella subcapitata	96 hours
	Fresh water		
	Acute LC50 1.23 mg/L	Crustaceans – Americamysis bahia	48 hours
	Marine water		
	Acute LC50 0.148 mg/L	Daphnia – <i>Daphnia manga</i> – neonate	48 hours
	Fresh water		
	Acute LC50 4700 μg/L	Fish – Oncorhynchus mykiss	96 hours
	Fresh water		
	Chronic NOEC 8 mg/L	Algae – Pseudokirchneriella subcapitata	96 hours
	Fresh water		
	Chronic NOEC 35 µg/L	Fish – Oryzias latipes – Fry	100 days
	Fresh water		
Copper	Acute EC50 1100 μg/L	Aquatic plants—Lemna minor	4 days
	Fresh water		
	Acute EC50 2.1 µg/L	Daphnia – <i>Daphnia longispina</i> —juvenile	48 hours
	Fresh water	(Fledgling, Hatchling, Weanling)	
	Acute IC50 13 μg/L	Algae – Pseudokirchneriella subcapitata	72 hours
	Fresh water	Exponential growth phase	
	Acute IC50 5.4 µg/L	Aquatic plants—Plantae—Exponential	72 hours
	Marine water	growth phase	
	Acute LC50 0.0072 μg/L	Crustaceans—Amphipoda—Adult	48 hours
	Marine water		
	Acute LC50 7.56 µg/L	Fish—Periophthalmus waltoni—Adult	96 hours
	Marine water		
	Chronic NOEC 2.5 µg/L	Algae—Nitzschia Closterium—	72 hours
	Marine water	Exponential growth phase	
	Chronic NOEC 7 mg/L	Aquatic plants—Ceratophyllum	3 days
	Fresh water	demersum	
	Chronic NOEC 0.02 g/L	Crustaceans—Cambarus bartonii—	21 days
	Fresh water	Mature	04 1
	Chronic NOEC 2 µg/L	Daphnia—Daphnia manga	21 days
	Fresh water		
	Chronic NOEC 0.8 µg/L	Fish—Oreochromis niloticus—Juvenile	6 weeks
	Fresh water	(Fledgling, Hatchling, Weanling)	

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil
Soil/water partition coefficient (Koc)

: Not available

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper	ENVIRONMENTALLY	ENVIRONMENTALLY	ENVIRONMENTALLY
shipping	HAZARDOUS SUBSTANCE,	HAZARDOUS SUBSTANCE,	HAZARDOUS SUBSTANCE,
name	LIQUID, N.O.S. (Nonylphenol,	LIQUID, N.O.S. (Nonylphenol,	LIQUID, N.O.S. (Nonylphenol,
	branched, ethoxylated,	branched, ethoxylated,	branched, ethoxylated,
	Nonylphenol polyethylene	Nonylphenol polyethylene	Nonylphenol polyethylene
	glycol ether), Marine pollutant	glycol ether), Marine pollutant	glycol ether)
	(Nonylphenol, branched,	(Nonylphenol, branched,	
	ethoxylated, Nonylphenol	ethoxylated, Nonylphenol	
	polyethylene glycol ether)	polyethylene glycol ether)	
Transport	\wedge		
hazard	$AHM \angle \Psi_{n} \setminus$	$\langle \Psi_{i} \rangle$	$\langle \Psi_{i} \rangle$
class(es)	1	9	9
	9	9	9
Packing group	III	III	III
Environmental	Yes	Yes	Yes
hazards			
Additional	Non-bulk packages of this	The marine pollutant mark is	The environmentally
information	product are not regulated as	not required when transported	hazardous substance mark is
	hazardous materials unless	in sizes of ≤5 L or ≤5 kg.	not required when transported
	transported by inland		in sizes of ≤5 L or ≤5 kg.
	waterway. The marine		
	pollutant mark is not required		
	when transported on inland		
	waterways in sizes of ≤5 L or		
	≤5 kg.		

Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

Section 15. Regulatory information

U.S. Federal regulation

TSCA 8(a) PAIR: Nonylphenol, ethoxylated; Siloxanes and Silicones, di-Me TSCA 8(a) CDR Exempt/Partial exemption: Not determined.

United States inventory (TSCA 8b): At least one component is not listed.

Clean Water Act (CWA) 307: Copper, Disodium [29H,31Hphthalocyaninedisulphonato(4-)-N29,N30,N31,N32]cuprate(2-) Clean Water Act (CWA) 311: Acetic acid, Formaldehyde.

SARA 304 RQ

Components	CAS	Component RQ (lb)	Calculated product RQ (lb)
Ethylene oxide	75-21-8	10	15302

SARA 311/312

Classification : Immediate (acute) health hazard. Serious eye damage or eye irritation.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	(acute) health	(chronic) health
					hazard	hazard
Nonylphenol, ethoxylated	60-100	No	No	No	Yes	No

CERCLA Reportable Quantity

Components	CAS	Component RQ (lb)	Calculated product RQ (lb)
Ethylene oxide	75-21-8	10	*
1,4-Dioxane	123-91-1	100	*

^{*}Calculated RQ exceeds reasonably attainable upper limit.

State regulations

Massachusetts

: The following components are listed: 1,4-Dioxane, Ethylene oxide, Formaldehyde, Methyl alcohol, Benzene, Potassium hydroxide.

New York

: The following components are listed: 1,4-Dioxane, Ethylene oxide, Acetic Acid, Formaldehyde, Methanol, Benzene, Potassium hydroxide, Copper.

New Jersey

: The following components are listed: 1.4-Dioxane. Ethylene oxide. Formaldehyde, Methanol, Benzene, Potassium hydroxide, Copper.

Pennsylvania

: The following components are listed: Acetic acid, Formaldehyde, Methyl

Alcohol, Benzene, Potassium hydroxide, Copper.

California Prop. 65

MARNING: This product can expose you to chemicals including 1,4-Dioxane, Ethylene oxide, Benzene and Formaldehyde, which are known to the State of California to cause cancer and Ethylene oxide, Benzene and Methyl alcohol which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health: 1 Flammability: 1 Physical hazards: 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health: 1 Flammability: 1 Instability: 0

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US Tariff Heading Number : 3402.13.0000 Schedule B Code : 3402.13.0000

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Version : 2

Prepared by : Schaeffer Mfg. Company.

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