

1.4

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication
 Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health
 Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072



IDENTITY (As Used on Label and List) COKE OVEN GAS CAS NO. 65996-81-8	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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Section I

Manufacturer's Name ABC COKE DIVISION, DRUMMOND CO., INC.	Emergency Telephone Number 205-849-1330 ALABAMA 1-800-523- 8661 1-800-321-4015
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information 205-849-1342
PO BOX 10246	Date Prepared 10/02/2009
BIRMINGHAM, AL 35121	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
HYDROGEN (SIMPLE ASPHYXIAN)	N/A	N/A	N/A	57.40
OXYGEN	N/A	N/A	N/A	0.12
NITROGEN	N/A	N/A	N/A	5.22
CARBON MONOXIDE		50 ppm		5.23
CARBON DIOXIDE		5,000 ppm		0.60
(SIMPLE ASPHYXIAN) METHANE	N/A	N/A	N/A	24.80
ETHANE (SIMPLE ASPHYXIAN)	N/A	N/A	N/A	0.61

ETHYLENE (SIMPLE ASPHYXIAN)	N/A	N/A	N/A	2.19
PROPYLENE (SIMPLE ASPHYXIAN)	N/A	N/A	N/A	0.10
BUTANE		800 ppm		0.10
WATER	N/A	N/A	N/A	3.20
HYDROGEN SULFIDE	C-20 ppm	peak 50 ppm	10 min. Duration	0.10

Section III - Physical/Chemical Characteristics

Boiling Point hydrogen	-253 C	Specific Gravity (H ₂ O = 1)	n/a
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	.380	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	SLIGHT		
Appearance and Odor	COLORLESS GAS WITH SLIGHT SULFIDE ODOR		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits HYDROGEN	LEL 4%	UEL 75 %
Extinguishing Media CO2, FOAM, DRY CHEMICAL, WATER FOG			
Special Fire Fighting Procedures CLOSE VALVE SUPPLYING FIRE			
Unusual Fire and Explosion Hazards HYDROGEN (MAJOR COMPONENT) IS EXPLOSIVE OVER AN EXTREMELY WIDE RANGE OF CONCENTRATIONS (4 – 75%)			

(Reproduce locally)

OSHA 174, Sept. 1985

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid N/A
	Stable	X	
Incompatibility (Materials to Avoid) STRONG OXIDIZERS			
Hazardous Decomposition or Byproducts			
Hazardous Polymerization	May Occur		Conditions to Avoid N/A
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? YES	Skin? NO	Ingestion? NO
Health Hazards (Acute and Chronic) Carbon Monoxide: (Acute) central nervous system, lungs, blood, cardiovascular system. (Chronic) may reduce oxygen carrying capacity of blood.			
Hydrogen Sulfide: Acute – Coma with or without convulsions – death from respiratory failure. Chronic – not established. Butane – Narcosis. Hydrogen methane, ethylene, propylene : simple asphyxiants			
Carcinogenicity:	NTP? no	IARC Monographs? No	OSHA Regulated? No
Signs and Symptoms of Exposure Carbon Monoxide: (Acute) headache, dizziness, drowsiness, nausea, vomiting, collapse coma. Chronic – Listlessness, shortness of breath. Hydrogen Sulfide: Acute – headache, dizziness, excitation, nausea, diarrhea.			
Medical Conditions Generally Aggravated by Exposure Chronic Lung disease			
Emergency and First Aid Procedures Remove from exposure area, begin artificial respiration. Consult Physician			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Ventilate area thoroughly, avoid sparks and open flames

Waste Disposal Method
Must comply with local, state, and federal regulations.

Precautions to Be taken in Handling and Storing
Absolutely no smoking. Avoid sparks and open flame

Other Precautions
None

Section VIII - Control Measures

Respiratory Protection (Specify Type) Organic vapor Type

Ventilation	Local Exhaust Yes	Special No
	Mechanical (General) Yes	Other No

Protective Gloves No **Eye Protection** No

Other Protective Clothing or Equipment
No

Work/Hygienic Practices Odor of gas is easily recognizable, avoid breathing gas. While the information contained herein is based on technical data that ABC Coke believes to be reliable, it is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are beyond the control of ABC Coke, no warranty, expressed or implied, is made, and no liability in connection with any use of this information is assumed.

* U.S.G.P.O.: 1986 - 491 - 529/45775

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