

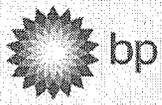
**FOSC Dispersant Decision / Implementation Element Checklist (cont'd) Figure 18-7**

Note: Need all “YES” answers before dispersant use is acceptable.

<input type="checkbox"/>	<input type="checkbox"/>	<p><b>4. Can dispersant application be conducted safely and effectively given the physical environment?</b> Environmental parameters:</p> <ul style="list-style-type: none"> <li>* wind less than or equal to 25 knots</li> <li>* visibility greater than or equal to 3 miles</li> <li>* ceiling greater than or equal to 1000 feet</li> <li>* operations during daylight hours only</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<b>DECISION ELEMENT</b>
<input type="checkbox"/>	<input type="checkbox"/>	<p><b>5. Are sufficient equipment and personnel available to conduct aerial dispersant application operations within the window of opportunity?</b> Note: Refer to elements and position descriptions under the Dispersant Operations Group Supervisor in the Operations Section. Other tools are available to assess this such as the NOAA Dispersant Mission Planner.</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p><b>6. Has a Site Safety Plan for dispersant operations been completed?</b></p>
<input type="checkbox"/>	<input type="checkbox"/>	<p><b>7. Is the spill/oil to be dispersed within a Pre-Approval Zone?</b> Refer to Section II within the RRT Dispersant Pre-Approval Agreement</p> <p><b>If the spill/oil is NOT in a Pre-Approved Zone, has approval been granted?</b></p> <p>Submit “RRT Documentation/Application Form for Dispersant Use” to the Incident Specific RRT members with request for approval.</p> <p>Dispersant use in non-approved areas must be repeated by the OSC and approved by EPA and the affected state(s) after consultation with DOC and DOI.</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p><b>8. Are the necessary equipment and trained personnel available to conduct the recommended monitoring operations?</b> The recommended monitoring protocol in the RRT Region IV is the Special Monitoring for Advanced Response Technologies or SMART. The Gulf Strike Team or Atlantic Strike Team is available to support and provide monitoring assistance.</p> <p>It may not be appropriate to base Go/No Go or continue/discontinue decisions solely on results from the SMART monitoring team since dispersant effectiveness is often delayed or not totally and easily conclusive.</p> <p>Monitoring is recommended but not strictly required (should not be a showstopper for operation).</p>

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Authority: Dan R. Replogle,  
GoM EMS Mgmt Representative  
Scope: GoM EMS  
Issue Date: 12/01/00  
Revision Date: 06/30/09  
Next Review Date: 06/30/11

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Document Administrator: Kristy McNease,  
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**FOSC Dispersant Decision / Implementation Element Checklist (Cont'd) Figure 18-7**

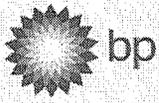
Note: Need all “YES” answers before dispersant use is acceptable.

<b>YES</b>	<b>NO</b>	
<input type="checkbox"/>	<input type="checkbox"/>	<p><b>9. Has the overflight to assure that endangered species are not in the application area been conducted?</b></p> <p>The provisions of the Section 7 consultation in regard to the RRT Pre-Approval Agreement requires an overflight of the application area to ensure endangered species are not threatened or endangered by the operation.</p>
<b>YES</b>	<b>NO</b>	
<input type="checkbox"/>	<input type="checkbox"/>	<p><b>10. Has a Dispersant Operations Plan been completed?</b></p> <p>Attached within this plan is a Dispersant Operations Plan template. The completion of this template should provide the OSC and Unified Command with a suitable and complete plan to support and implement the dispersant effort.</p>

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Dispersant Application Form For Region VI RRT Dispersant (continued)

Figure 18-8

IV. DESCRIPTION OF AREA OVER WHICH DISPERSANTS WERE APPLIED:

1. Description from Shoreline: \_\_\_\_\_
2. Depth of Water: \_\_\_\_\_
3. Jurisdiction (i.e., federal or state): \_\_\_\_\_
4. Special Management Zone Area (as defined in LOAs): \_\_\_\_\_
5. Safety Zone Established in Operational Area: \_\_\_\_\_

V. AVAILABILITY OF PERSONNEL AND EQUIPMENT:

1. Availability of Application and Spotter Aircraft/Vessel: \_\_\_\_\_  
     Source: \_\_\_\_\_  
     Point of Contact: \_\_\_\_\_  
     Type: \_\_\_\_\_  
     Travel Time to Spill: \_\_\_\_\_
2. Type of Aircraft/Vessel Used: \_\_\_\_\_
3. Aircraft/Vessel's Dispersant Load Capability: \_\_\_\_\_
4. Availability of Qualified Personnel: \_\_\_\_\_  
     Source: \_\_\_\_\_  
     Point of Contact: \_\_\_\_\_  
     Travel Time to Spill: \_\_\_\_\_
5. Time Required for Delivery to the Aircraft Staging Area: \_\_\_\_\_

VI. INFORMATION ON DISPERSANT PRODUCT:

1. Name of Dispersant: \_\_\_\_\_
2. Manufacturer: \_\_\_\_\_
3. Amount Available: \_\_\_\_\_
4. Source: \_\_\_\_\_

**\*\* A Material Safety Data Sheet of the Product Should be Attached Here**

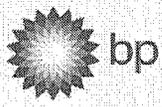
VII. IMPLEMENTATION OF RECOMMENDED MONITORING PROTOCOLS:

1. Was the Gulf Strike Team's SMART monitoring protocol deployed? \_\_\_\_\_

**\*\* A full report documenting the activities and results of any monitoring activities should be attached here.**

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**Material Safety Data Sheet – Corexit 9500**

**Figure 18-9**



**MATERIAL SAFETY DATA SHEET**

PRODUCT

**COREXIT® 9500**

EMERGENCY TELEPHONE NUMBER(S)  
(800) 424-9300 (24 Hours) CHEMTREC

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME : COREXIT® 9500  
 APPLICATION : OIL SPILL DISPERSANT  
 COMPANY IDENTIFICATION : Nalco Energy Services, L.P.  
 P.O. Box 87  
 Sugar Land, Texas  
 77487-0087  
 EMERGENCY TELEPHONE NUMBER(S) : (800) 424-9300 (24 Hours) CHEMTREC  
 NFPA 704M/HMIS RATING  
 HEALTH: 1/1 FLAMMABILITY: 1/1 INSTABILITY: 0/0 OTHER: 0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s)	CAS NO	% (w/w)
Distillates, petroleum, hydrotreated light	64742-47-8	10.0 - 30.0
Propylene Glycol	57-55-6	1.0 - 5.0
Organic sulfonic acid salt	Proprietary	10.0 - 30.0

**3. HAZARDS IDENTIFICATION**

**\*\*EMERGENCY OVERVIEW\*\***

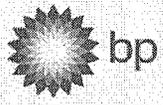
**WARNING**  
 Combustible.  
 Keep away from heat. Keep away from sources of ignition - No smoking. Keep container tightly closed. Do not get in eyes, on skin, on clothing. Do not take internally. Avoid breathing vapor. Use with adequate ventilation. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water.  
 Wear suitable protective clothing.  
 Low Fire Hazard; liquids may burn upon heating to temperatures at or above the flash point. May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of sulfur (SOx) under fire conditions.

PRIMARY ROUTES OF EXPOSURE :  
 Eye, Skin  
 HUMAN HEALTH HAZARDS - ACUTE :  
 EYE CONTACT :  
 May cause irritation with prolonged contact.

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Material Safety Data Sheet – Corexit 9500 (Cont'd)

Figure 18-9



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® 9500

EMERGENCY TELEPHONE NUMBER(S)

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SKIN CONTACT :  
May cause irritation with prolonged contact.

INGESTION :  
Not a likely route of exposure. Can cause chemical pneumonia if aspirated into lungs following ingestion.

INHALATION :  
Repeated or prolonged exposure may irritate the respiratory tract.

SYMPTOMS OF EXPOSURE :  
Acute :  
A review of available data does not identify any symptoms from exposure not previously mentioned.  
Chronic :  
Frequent or prolonged contact with product may defat and dry the skin, leading to discomfort and dermatitis.

AGGRAVATION OF EXISTING CONDITIONS :  
Skin contact may aggravate an existing dermatitis condition.

**4. FIRST AID MEASURES**

EYE CONTACT :  
Immediately flush with plenty of water for at least 15 minutes. If symptoms develop, seek medical advice.

SKIN CONTACT :  
Immediately wash with plenty of soap and water. If symptoms develop, seek medical advice.

INGESTION :  
Do not induce vomiting; contains petroleum distillates and/or aromatic solvents. If conscious, washout mouth and give water to drink. Get medical attention.

INHALATION :  
Remove to fresh air, treat symptomatically. Get medical attention.

NOTE TO PHYSICIAN :  
Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

**5. FIRE FIGHTING MEASURES**

FLASH POINT : 181.4 °F / 83 °C (PMCC)

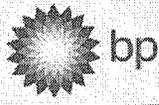
LOWER EXPLOSION LIMIT : Not flammable

UPPER EXPLOSION LIMIT : Not flammable

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Material Safety Data Sheet – Corexit 9500 (Cont'd)

Figure 18-9



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® 9500

EMERGENCY TELEPHONE NUMBER(S)  
(800) 424-9300 (24 Hours) CHEMTREC

**EXTINGUISHING MEDIA :**  
Alcohol foam, Carbon dioxide, Foam, Dry powder, Other extinguishing agent suitable for Class B fires. For large fires, use water spray or fog, thoroughly drenching the burning material. Water mist may be used to cool closed containers.

**UNSUITABLE EXTINGUISHING MEDIA :**  
Do not use water unless flooding amounts are available.

**FIRE AND EXPLOSION HAZARD :**  
Low Fire Hazard; liquids may burn upon heating to temperatures at or above the flash point. May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of sulfur (SOx) under fire conditions.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :**  
In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

**6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS :**  
Restrict access to area as appropriate until clean-up operations are complete. Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Do not touch spilled material. Remove sources of ignition. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Notify appropriate government, occupational health and safety and environmental authorities.

**METHODS FOR CLEANING UP :**  
**SMALL SPILLS:** Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. **LARGE SPILLS:** Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

**ENVIRONMENTAL PRECAUTIONS :**  
Do not contaminate surface water.

**7. HANDLING AND STORAGE**

**HANDLING :**  
Use with adequate ventilation. Keep the containers closed when not in use. Do not take internally. Do not get in eyes, on skin, on clothing. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

**STORAGE CONDITIONS :**  
Store away from heat and sources of ignition. Store separately from oxidizers. Store the containers tightly closed.

**SUITABLE CONSTRUCTION MATERIAL :**  
Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

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**Material Safety Data Sheet – Corexit 9500 (Cont'd)**

**Figure 18-9**



**MATERIAL SAFETY DATA SHEET**

PRODUCT

**COREXIT® 9500**

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

**9. PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE	Liquid
APPEARANCE	Clear Hazy Amber
ODOR	Hydrocarbon
SPECIFIC GRAVITY	0.95 @ 60 °F / 15.6 °C
DENSITY	7.91 lb/gal
SOLUBILITY IN WATER	Miscible
pH (100 %)	6.2
VISCOSITY	177 cps @ 32 °F / 0 °C 70 cps @ 60 °F / 15.6 °C @ 104 °F / 40 °C
VISCOSITY	@ 32 °F / 0 °C @ 60 °F / 15.6 °C 22.5 cst @ 104 °F / 40 °C
POUR POINT	< -71 °F / < -57 °C
BOILING POINT	296 °F / 147 °C
VAPOR PRESSURE	15.5 mm Hg @ 100 °F / 37.8 °C

Note: These physical properties are typical values for this product and are subject to change.

**10. STABILITY AND REACTIVITY**

**STABILITY :**  
Stable under normal conditions.

**HAZARDOUS POLYMERIZATION :**  
Hazardous polymerization will not occur.

**CONDITIONS TO AVOID :**  
Heat

**MATERIALS TO AVOID :**  
Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.

**HAZARDOUS DECOMPOSITION PRODUCTS :**  
Under fire conditions: Oxides of carbon, Oxides of sulfur

**11. TOXICOLOGICAL INFORMATION**

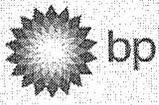
No toxicity studies have been conducted on this product.

**SENSITIZATION :**  
This product is not expected to be a sensitizer.

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**Material Safety Data Sheet – Corexit 9500 (Cont'd)**

**Figure 18-9**



**MATERIAL SAFETY DATA SHEET**

**PRODUCT**

**COREXIT® 9500**

**EMERGENCY TELEPHONE NUMBER(S)**  
(800) 424-9300 (24 Hours) CHEMTREC

**CARCINOGENICITY :**  
None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

**HUMAN HAZARD CHARACTERIZATION :**  
Based on our hazard characterization, the potential human hazard is: Moderate

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL EFFECTS :**

The following results are for the product.

**ACUTE INVERTEBRATE RESULTS :**

Species	Exposure	LC50	EC50	Test Descriptor
Acartia tonsa	48 hrs	34 mg/l		Product
Artemia	48 hrs	20.7 mg/l		Product

**MOBILITY :**

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	Water	Soil/Sediment
<5%	10 - 30%	50 - 70%

The portion in water is expected to float on the surface.

**BIOACCUMULATION POTENTIAL**  
Component substances have a potential to bioconcentrate.

**ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION**  
Based on our hazard characterization, the potential environmental hazard is: Low  
Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Low

If released into the environment, see CERCLA/SUPERFUND in Section 15.

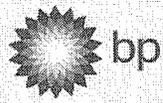
**13. DISPOSAL CONSIDERATIONS**

If this product becomes a waste, it could meet the criteria of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

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**Material Safety Data Sheet – Corexit 9500 (Cont'd)**

**Figure 18-9**



**MATERIAL SAFETY DATA SHEET**

PRODUCT

**COREXIT® 9500**

EMERGENCY TELEPHONE NUMBER(S)  
(800) 424-9300 (24 Hours) CHEMTREC

Hazardous Waste: D018

Hazardous wastes must be transported by a licensed hazardous waste transporter and disposed of or treated in a properly licensed hazardous waste treatment, storage, disposal or recycling facility. Consult local, state, and federal regulations for specific requirements.

**14. TRANSPORT INFORMATION**

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

**LAND TRANSPORT :**

For Packages Less Than Or Equal To 119 Gallons:  
Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

For Packages Greater Than 119 Gallons:

Proper Shipping Name :  
Technical Name(s) :  
UN/ID No :  
Hazard Class - Primary :  
Packing Group :

COMBUSTIBLE LIQUID, N.O.S.  
PETROLEUM DISTILLATES  
NA 1993  
COMBUSTIBLE  
III

Flash Point :

83 °C / 181.4 °F

**AIR TRANSPORT (ICAO/IATA) :**

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

**MARINE TRANSPORT (IMDG/IMO) :**

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

**15. REGULATORY INFORMATION**

**NATIONAL REGULATIONS, USA :**

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :

Based on our hazard evaluation, the following substance(s) in this product is/are hazardous and the reason(s) is/are shown below.

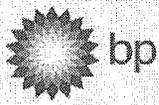
Distillates, petroleum, hydrotreated light : Irritant  
Propylene Glycol : Exposure Limit, Eye irritant  
Organic sulfonic acid salt : Irritant

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Material Safety Data Sheet – Corexit 9500 (Cont'd)

Figure 18-9



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® 9500

EMERGENCY TELEPHONE NUMBER(S)  
(800) 424-9306 (24 Hours) CHEMTREC

CERCLA/SUPERFUND, 40 CFR 117, 302 :  
Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313 :

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355) :  
This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370) :  
Our hazard evaluation has found this product to be hazardous. The product should be reported under the following indicated EPA hazard categories:

- X Immediate (Acute) Health Hazard
- Delayed (Chronic) Health Hazard
- Fire Hazard
- Sudden Release of Pressure Hazard
- Reactive Hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372) :  
This product does not contain substances on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA) :  
The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311 :  
None of the substances are specifically listed in the regulation.

CLEAN AIR ACT, Sec. 111 (40 CFR 60, Volatile Organic Compounds), Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances) :  
None of the substances are specifically listed in the regulation.

Substance(s)	Citations
• Propylene Glycol	Sec. 111

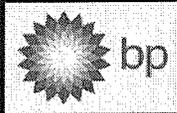
CALIFORNIA PROPOSITION 65 :  
This product does not contain substances which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS :  
None of the substances are specifically listed in the regulation.

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Title of Document: Regional Oil Spill Response Plan  
Authority: Dan R. Replogle,  
GoM EMS Mgmt Representative  
Scope: GoM EMS  
Issue Date: 12/01/00  
Revision Date: 06/30/09  
Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2  
Custodian: Earnest Bush,  
Environmental Coordinator  
Document Administrator: Kristy McNease,  
GoM HSSE Document Mgmt Administrator  
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**Material Safety Data Sheet – Corexit 9500 (Cont'd)**

**Figure 18-9**



**MATERIAL SAFETY DATA SHEET**

**PRODUCT**

**COREXIT® 9500**

**EMERGENCY TELEPHONE NUMBER(S)**  
**(800) 424-9300 (24 Hours) CHEMTREC**

**STATE RIGHT TO KNOW LAWS :**

The following substances are disclosed for compliance with State Right to Know Laws:

Propylene Glycol	57-55-6
------------------	---------

**NATIONAL REGULATIONS, CANADA :**

**WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) :**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS CLASSIFICATION :**

Not considered a WHMIS controlled product.

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) :**

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

**16. OTHER INFORMATION**

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

\* The human risk is: Low

\* The environmental risk is: Low

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

**REFERENCES**

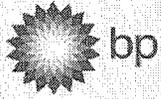
Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

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**BP**  
Regional Oil Spill Response Plan – Gulf of Mexico

Section 18  
Dispersant Use  
Plan

**Material Safety Data Sheet – Corexit 9500 (Cont'd)**

**Figure 18-9**



**MATERIAL SAFETY DATA SHEET**

PRODUCT

**COREXIT® 9500**

EMERGENCY TELEPHONE NUMBER(S)  
(800) 424-9300 (24 Hours) CHEMTREC

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight# (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

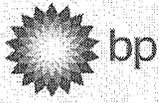
The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Prepared By : Product Safety Department  
Date issued : 06/14/2005  
Version Number : 1.6

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**Material Safety Data Sheet – Corexit 9527**

**Figure 18-10**



**MATERIAL SAFETY DATA SHEET**

PRODUCT

**COREXIT® EC9527A**

EMERGENCY TELEPHONE NUMBER(S)  
(800) 424-9300 (24 Hours) CHEMTREC

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME : COREXIT® EC9527A  
 APPLICATION : OIL SPILL DISPERSANT  
 COMPANY IDENTIFICATION : Nalco Energy Services, L.P.  
 P.O. Box 87  
 Sugar Land, Texas  
 77487-0087  
 EMERGENCY TELEPHONE NUMBER(S) : (800) 424-9300 (24 Hours) CHEMTREC  
 NFPA 704M/HMIS RATING  
 HEALTH: 2/2 FLAMMABILITY: 2/2 INSTABILITY: 0/0 OTHER :  
 0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s)	CAS NO	% (w/w)
2-Butoxyethanol	111-76-2	30.0 - 60.0
Organic sulfonic acid salt	Proprietary	10.0 - 30.0
Propylene Glycol	57-55-6	1.0 - 5.0

**3. HAZARDS IDENTIFICATION**

**\*\*EMERGENCY OVERVIEW\*\***

**WARNING**  
 Eye and skin irritant. Repeated or excessive exposure to butoxyethanol may cause injury to red blood cells (hemolysis), kidney or the liver. Combustible.  
 Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Wear suitable protective clothing. Keep container tightly closed. Flush affected area with water. Keep away from heat. Keep away from sources of ignition - No smoking.  
 May evolve oxides of carbon (COx) under fire conditions.

PRIMARY ROUTES OF EXPOSURE :  
 Eye, Skin

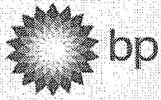
HUMAN HEALTH HAZARDS - ACUTE :

EYE CONTACT :  
 Can cause mild to moderate irritation.

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**Material Safety Data Sheet – Corexit 9527 (Cont'd) Figure 18-10**



**MATERIAL SAFETY DATA SHEET**

PRODUCT

**COREXIT® EC9527A**

EMERGENCY TELEPHONE NUMBER(S)  
(800) 424-9300 (24 Hours) CHEMTREC

**SKIN CONTACT :**

Can cause mild to moderate irritation.

**INGESTION :**

Not a likely route of exposure. Large quantities may cause kidney and liver damage.

**INHALATION :**

Not a likely route of exposure. Aerosols or product mist may irritate the upper respiratory tract.

**SYMPTOMS OF EXPOSURE :**

Acute :

Excessive exposure may cause central nervous system effects, nausea, vomiting, anesthetic or narcotic effects.

Chronic :

Repeated or excessive exposure to butoxyethanol may cause injury to red blood cells (hemolysis), kidney or the liver.

**AGGRAVATION OF EXISTING CONDITIONS :**

Skin contact may aggravate an existing dermatitis condition.

**4. FIRST AID MEASURES**

**EYE CONTACT :**

Flush affected area with water. If symptoms develop, seek medical advice.

**SKIN CONTACT :**

Flush affected area with water. If symptoms develop, seek medical advice.

**INGESTION :**

Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If symptoms develop, seek medical advice.

**INHALATION :**

Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

**NOTE TO PHYSICIAN :**

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

**5. FIRE FIGHTING MEASURES**

FLASH POINT : 163 °F / 72.7 °C (TCC)

**EXTINGUISHING MEDIA :**

This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.

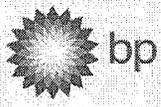
**FIRE AND EXPLOSION HAZARD :**

May evolve oxides of carbon (COx) under fire conditions.

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Material Safety Data Sheet – Corexit 9527 (Cont'd)

Figure 18-10



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® EC9527A

EMERGENCY TELEPHONE NUMBER(S)  
(800) 424-9300 (24 Hours) CHEMTREC

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :  
In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :  
Restrict access to area as appropriate until clean-up operations are complete. Stop or reduce any leaks if it is safe to do so. Do not touch spilled material. Ventilate spill area if possible. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection).

METHODS FOR CLEANING UP :  
SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS :  
Do not contaminate surface water.

7. HANDLING AND STORAGE

HANDLING :  
Avoid eye and skin contact. Do not take internally. Ensure all containers are labelled. Keep the containers closed when not in use.

STORAGE CONDITIONS :  
Store the containers tightly closed.

SUITABLE CONSTRUCTION MATERIAL :  
PVC, Stainless Steel 316L, Hastelloy C-276, MDPE (medium density polyethylene), Nitrile, Plexiglass, Kalrez, EPDM, TFE, Alfax, Teflon, HDPE (high density polyethylene), Neoprene, Aluminum, Polypropylene, Polyethylene, Carbon Steel C1018, Stainless Steel 304. Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

UNSUITABLE CONSTRUCTION MATERIAL :  
Copper, Mild steel, Brass, Nylon, Buna-N, Natural rubber, Polyurethane, Hypalon, Viton, Ethylene propylene

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

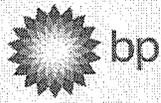
OCCUPATIONAL EXPOSURE LIMITS :  
Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

ACGIH/TLV :  
Substance(s)  
2-Butoxyethanol TWA: 20 ppm , 97 mg/m3

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**Material Safety Data Sheet – Corexit 9527 (Cont'd)**

**Figure 18-10**



**MATERIAL SAFETY DATA SHEET**

PRODUCT

**COREXIT® EC9527A**

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

Propylene Glycol

OSHA/PEL :

Substance(s)

2-Butoxyethanol

TWA: 25 ppm , 120 mg/m3 (Skin)

Propylene Glycol

AIHA/WEEL :

Substance(s)

For propylene glycol, an 8 hour TWA of 10 mg/m3 (aerosol) and 50 ppm (total).

**ENGINEERING MEASURES :**

General ventilation is recommended.

**RESPIRATORY PROTECTION :**

Where concentrations in air may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: Multi-contaminant cartridge (Gold) with a Particulate pre-filter (Purple). In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

**HAND PROTECTION :**

Neoprene gloves, Nitrile gloves, Butyl gloves, PVC gloves

**SKIN PROTECTION :**

Wear standard protective clothing.

**EYE PROTECTION :**

Wear chemical splash goggles.

**HYGIENE RECOMMENDATIONS :**

Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

**HUMAN EXPOSURE CHARACTERIZATION :**

Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

**9. PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE	Liquid
APPEARANCE	Clear Amber
ODOR	Mild
SPECIFIC GRAVITY	0.98 - 1.02
DENSITY	8.2 - 8.5 lb/gal

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**Material Safety Data Sheet – Corexit 9527 (Cont'd)**

**Figure 18-10**



**MATERIAL SAFETY DATA SHEET**

PRODUCT

**COREXIT® EC9527A**

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

SOLUBILITY IN WATER	Complete
pH (100 %)	6.1
VISCOSITY	160 cst @ 32 °F / 0 °C
POUR POINT	< -40 °F / < -40 °C
BOILING POINT	340 °F / 171 °C
VAPOR PRESSURE	< 5 mm Hg @ 100 °F / 38 °C Same as water
EVAPORATION RATE	0.1

Note: These physical properties are typical values for this product and are subject to change.

**10. STABILITY AND REACTIVITY**

STABILITY :

Stable under normal conditions.

HAZARDOUS POLYMERIZATION :

Hazardous polymerization will not occur.

CONDITIONS TO AVOID :

Freezing temperatures.

MATERIALS TO AVOID :

None known

HAZARDOUS DECOMPOSITION PRODUCTS :

Under fire conditions: Oxides of carbon

**11. TOXICOLOGICAL INFORMATION**

No toxicity studies have been conducted on this product.

SENSITIZATION :

This product is not expected to be a sensitizer.

CARCINOGENICITY :

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

HUMAN HAZARD CHARACTERIZATION :

Based on our hazard characterization, the potential human hazard is: High

**12. ECOLOGICAL INFORMATION**

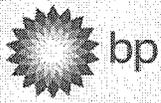
ECOTOXICOLOGICAL EFFECTS :

No toxicity studies have been conducted on this product.

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**Material Safety Data Sheet – Corexit 9527 (Cont'd)**

**Figure 18-10**



**MATERIAL SAFETY DATA SHEET**

PRODUCT

**COREXIT® EC9527A**

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

**ACUTE FISH RESULTS :**

Species	Exposure	LC50	Test Descriptor
Turbot	96 hrs	50 mg/l	

Rating :

**MOBILITY :**

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM , provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	Water	Soil/Sediment
<5%	10 - 30%	70 - 90%

The portion in water is expected to be soluble or dispersible.

**BIOACCUMULATION POTENTIAL**

Component substances have a low potential to bioconcentrate.

**ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION**

Based on our hazard characterization, the potential environmental hazard is: Moderate

Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Low

If released into the environment, see CERCLA/SUPERFUND in Section 15.

**13. DISPOSAL CONSIDERATIONS**

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

**14. TRANSPORT INFORMATION**

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

**LAND TRANSPORT :**

For Packages Less Than Or Equal To 119 Gallons:

Proper Shipping Name :

**PRODUCT IS NOT REGULATED DURING TRANSPORTATION**

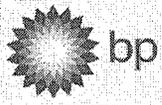
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**Material Safety Data Sheet – Corexit 9527 (Cont'd)**

**Figure 18-10**



**MATERIAL SAFETY DATA SHEET**

PRODUCT

**COREXIT® EC9527A**

EMERGENCY TELEPHONE NUMBER(S)  
(800) 424-9300 (24 Hours) CHEMTREC

For Packages Greater Than 119 Gallons:

Proper Shipping Name :	COMBUSTIBLE LIQUID, N.O.S.
Technical Name(s) :	2-BUTOXYETHANOL
UN/ID No :	NA 1993
Hazard Class - Primary :	COMBUSTIBLE
Packing Group :	III
Flash Point :	72.7 °C / 163 °F

AIR TRANSPORT (ICAO/IATA) :

Proper Shipping Name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

MARINE TRANSPORT (IMDG/IMO) :

Proper Shipping Name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

**15. REGULATORY INFORMATION**

NATIONAL REGULATIONS, USA :

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :  
Based on our hazard evaluation, none of the substances in this product are hazardous.

CERCLA/SUPERFUND, 40 CFR 117, 302 :  
Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313 :

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355) :  
This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

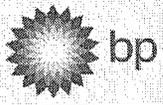
SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370) :  
Our hazard evaluation has found this product to be hazardous. The product should be reported under the following indicated EPA hazard categories:

- |   |                                   |
|---|-----------------------------------|
| X | Immediate (Acute) Health Hazard   |
| X | Delayed (Chronic) Health Hazard   |
| X | Fire Hazard                       |
|   | Sudden Release of Pressure Hazard |
|   | Reactive Hazard                   |

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Title of Document: Regional Oil Spill Response Plan  
Authority: Dan R. Replogle,  
GoM EMS Mgmt Representative  
Scope: GoM EMS  
Issue Date: 12/01/00  
Revision Date: 06/30/09  
Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2  
Custodian: Earnest Bush,  
Environmental Coordinator  
Document Administrator: Kristy McNease,  
GoM HSSE Document Mgmt Administrator  
Issuing Dept.: GOM SPU  
Control Tier: Tier 2 - GoM Region  
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**Material Safety Data Sheet – Corexit 9527 (Cont'd) Figure 18-10**



**MATERIAL SAFETY DATA SHEET**

**PRODUCT**

**COREXIT® EC9527A**

**EMERGENCY TELEPHONE NUMBER(S)**  
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Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372) :**  
This product contains the following substance(s), (with CAS # and % range) which appear(s) on the List of Toxic Chemicals

<u>Hazardous Substance(s)</u>	<u>CAS NO</u>	<u>% (w/w)</u>
Glycol Ethers		0.0 - 0.0

**TOXIC SUBSTANCES CONTROL ACT (TSCA) :**  
The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

**FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311 :**  
None of the substances are specifically listed in the regulation.

**CLEAN AIR ACT, Sec. 111 (40 CFR 60, Volatile Organic Compounds), Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances) :**  
This product contains the following substances listed in the regulation:

<u>Substance(s)</u>	<u>Citations</u>
• 2-Butoxyethanol	Sec. 111
• Propylene Glycol	

**CALIFORNIA PROPOSITION 65 :**  
This product does not contain substances which require warning under California Proposition 65.

**MICHIGAN CRITICAL MATERIALS :**  
None of the substances are specifically listed in the regulation.

**STATE RIGHT TO KNOW LAWS :**  
The following substances are disclosed for compliance with State Right to Know Laws:

2-Butoxyethanol	111-76-2
Propylene Glycol	57-55-6

**NATIONAL REGULATIONS, CANADA :**

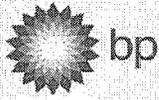
**WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) :**  
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS CLASSIFICATION :**  
D2B - Materials Causing Other Toxic Effects - Toxic Material

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Material Safety Data Sheet – Corexit 9527 (Cont'd)

Figure 18-10



MATERIAL SAFETY DATA SHEET

PRODUCT

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CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) :  
The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

16. OTHER INFORMATION

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

- \* The human risk is: Low
- \* The environmental risk is: Low

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

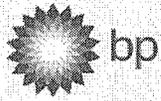
Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

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**BP**  
Regional Oil Spill Response Plan – Gulf of Mexico

Section 18  
Dispersant Use  
Plan

**Material Safety Data Sheet – Corexit 9527 (Cont'd)**

**Figure 18-10**



**MATERIAL SAFETY DATA SHEET**

**PRODUCT**

**COREXIT® EC9527A**

**EMERGENCY TELEPHONE NUMBER(S)**

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Ariel Insight® (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight® CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Prepared By : Product Safety Department  
Date issued : 02/20/2004  
Version Number : 1.6

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