



# SAFETY DATA SHEET

**SDS ID NO.:** 0257MAR019 **Revision Date:** 05/27/2015

# 1. IDENTIFICATION

Product Name: Marathon Petroleum Dilute Naphthalene Oil

Synonym: Dilute Naphthalene Oil; DNO

Chemical Family: Hydrocarbon Mixture

**Recommended Use:**Use Restrictions:
No available data.
No available data.

**Supplier Name and Address:** 

MARATHON PETROLEUM COMPANY LP 539 South Main Street Findlay, OH 45840

**SDS information:** 1-419-421-3070 **Emergency Telephone:** 1-877-627-5463

# 2. HAZARD IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Acute toxicity - Oral	Category 4
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 1
Aspiration toxicity	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

### Hazards Not Otherwise Classified (HNOC)

Static accumulating flammable liquid

## Label elements

### **EMERGENCY OVERVIEW**

### Danger

FLAMMABLE LIQUID AND VAPOR

May accumulate electrostatic charge and ignite or explode

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Harmful if swallowed.

May be fatal if swallowed and enters airways

Suspected of causing cancer

Causes damage to organs (blood)

Very toxic to aquatic life with long lasting effects

25% of the mixture consists of ingredient(s) of unknown toxicity



Appearance Brown Liquid

Physical State Liquid

Odor Moth Ball odor

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### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wash hands and any possibly exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Avoid release to the environment

### **Precautionary Statements - Response**

IF exposed: Call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Rinse mouth

Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

Collect spillage

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container at an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Dilute Naphthalene Oil is a mixture of naphthalene and indene derived from the fractionation of coal tar light oil.

### **Composition Information:**

Name	CAS Number	Weight %
Naphthalene	91-20-3	62-82
Indene	95-13-6	2-25
2-methylnaphthalene	91-57-6	1.5-3

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# 4. FIRST AID MEASURES

### **First Aid Measures**

General advice In case of accident or if you feel unwell, seek medical advice immediately (show directions

for use or safety data sheet if possible).

Inhalation: Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult,

ensure airway is clear, give oxygen and continue to monitor. If heart has stopped,

immediately begin cardiopulmonary resuscitation (CPR). Keep affected person warm and at

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rest. GET IMMEDIATE MEDICAL ATTENTION.

**Skin Contact:** Immediately wash exposed skin with plenty of soap and water while removing contaminated

clothing and shoes. May be absorbed through the skin in harmful amounts. Get medical attention if irritation persists. Place contaminated clothing in closed container until cleaned or discarded. If clothing is to be laundered, inform the person performing the operation of contaminant's hazardous properties. Destroy contaminated, non-chemical resistant

footwear.

When burned from contact with hot material, immerse or flush skin immediately with large

amounts of cold water. Cover with clean cotton sheeting or gauze and GET IMMEDIATE

MEDICAL ATTENTION.

Eye Contact: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be

held away from the eyeball to ensure thorough rinsing. Gently remove contacts while

flushing. Get medical attention if irritation persists.

If hot material comes in contact with eyes, hold the eyelids apart and flush the eye with a

large amount of cool water for at least 15 minutes. GET IMMEDIATE MEDICAL

ATTENTION.

**Ingestion:** Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious

damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips, or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Keep affected

person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.

Most important signs and symptoms, both short-term and delayed with overexposure

Adverse Effects: May cause skin irritation and/or dermatitis. Contact with hot product may cause burns.

Causes adverse effects in blood.

Indication of any immediate medical attention and special treatment needed

NOTES TO PHYSICIAN: INGESTION: This material represents a significant aspiration and chemical pneumonitis

hazard. Induction of emesis is not recommended.

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

Unsuitable extinguishing media

Do not use straight water streams to avoid spreading fire.

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### Specific hazards arising from the chemical

This product has been determined to be a flammable liquid per the OSHA Hazard Communication Standard and should be handled accordingly. May accumulate electrostatic charge and ignite or explode. Vapors may travel along the ground or be moved by ventilation and ignited by many sources such as pilot lights, sparks, electric motors, static discharge, or other ignition sources at locations distant from material handling. Flashback can occur along vapor trail. For additional fire related information, see NFPA 30 or the North American Emergency Response Guide 128.

### **Hazardous combustion products**

Smoke, carbon monoxide, and other products of incomplete combustion.

### **Explosion data**

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

### Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Use water spray to cool exposed surfaces from as far a distance as possible. Keep run-off water out of sewers and water sources.

NFPA: Health 2 Flammability 2 Instability 0 Special Hazards -

### 6. ACCIDENTAL RELEASE MEASURES

Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate all **Personal Precautions:** 

ignition sources. All contaminated surfaces will be slippery.

**Protective Equipment:** Use personal protection measures as recommended in Section 8.

Advise authorities and National Response Center (800-424-8802) if the product has **Emergency Procedures:** 

entered a water course or sewer. Notify local health and pollution control agencies, if

appropriate.

Avoid release to the environment. Avoid subsoil penetration. **Environmental precautions:** 

Methods and materials for

containment:

Contain liquid with sand or soil.

up:

Methods and materials for cleaning Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers. When recovering free liquids ensure all equipment is grounded and bonded. Use only non-sparking tools. Material may

phase separate and leave soft solid layer that can be shoveled.

### 7. HANDLING AND STORAGE

Use appropriate grounding and bonding practices. Static accumulating flammable liquid. Safe Handling Precautions: Bonding and grounding may be insufficient to eliminate the hazard from static electricity. Do

not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking. Avoid repeated and prolonged skin contact. Use personal protection measures as recommended in Section 8. Use only non-sparking tools. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA,

NFPA and consistent state and local requirements.

Store in properly closed containers that are appropriately labeled and in a cool, **Storage Conditions:** 

well-ventilated area.

Strong oxidizing agents. Incompatible materials

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
Naphthalene 91-20-3	10 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm TWA: 50 mg/m³	10 ppm TWA 50 mg/m³ TWA 15 ppm STEL 75 mg/m³ STEL	250 ppm
Indene 95-13-6	5 ppm TWA	<del>-</del>	10 ppm TWA 45 mg/m³ TWA	_
2-methylnaphthalene 91-57-6	0.5 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	-	-	•

Notes: The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's

1989 air contaminants standard in its SDSs, even though certain of those exposure limits

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were vacated in 1992.

**Engineering measures:** Local or general exhaust required in an enclosed area or when there is inadequate

ventilation. Use mechanical ventilation equipment that is explosion-proof.

Personal protective equipment

**Eye protection:** Use goggles or face-shield if the potential for splashing exists. Wear goggles and faceshield

when handling hot material.

**Skin and body protection:** Polyvinyl alcohol (PVA) or viton gloves to prevent skin contact. Glove suitability is based on

workplace conditions and usage. Contact the glove manufacturer for specific advice on

glove selection and breakthrough times.

Respiratory protection: Use an approved organic vapor chemical cartridge or supplied air respirators when material

produces vapors that exceed permissible exposure limits or excessive vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained breathing apparatus should be used for fire

fighting.

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes and clothing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical StateLiquidAppearanceBrown LiquidColorDark brownOdorMoth Ball odorOdor ThresholdNo available data.

Property
Melting Point / Freezing Point
Initial Boiling Point / Boiling Range
Flash Point
Evaporation Rate

Values (Method)
No available data.
No available data.
60-82 °C / 140-180 °F
No available data.

Flammability (solid, gas)

Not applicable.

Flammability Limit in Air (%)

Upper Flammability Limit: 5.9 Lower Flammability Limit: 0.9

Vapor PressureNo available data.Vapor DensityNo available data.

Specific Gravity / Relative Density 0.96-1.0

Water Solubility No available data.

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Oil

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No available data. Solubility in other solvents **Partition Coefficient** No available data. **Decomposition temperature:** No available data. pH: Not applicable. **Autoignition Temperature** No available data. **Kinematic Viscosity** No available data. **Dvnamic Viscosity** No available data. **Explosive Properties** No available data. **Softening Point** No available data. **VOC Content (%)** No available data. **Density** 7.9-8.5 lbs/gal Not applicable. **Bulk Density** 

# 10. STABILITY AND REACTIVITY

**Reactivity** The product is non-reactive under normal conditions.

<u>Chemical stability</u> The material is stable at 70°F, 760 mmHg pressure.

<u>Possibility of hazardous reactions</u>

None under normal processing.

Hazardous polymerization Will not occur.

Conditions to avoid Excessive heat, sources of ignition, open flame.

<u>Incompatible materials</u> Strong oxidizing agents.

Hazardous decomposition products

None known under normal conditions of use.

# 11. TOXICOLOGICAL INFORMATION

### Potential short-term adverse effects from overexposures

**Inhalation** Inhalation of high vapor concentrations may cause irritation of the respiratory system.

**Eye contact** May cause eye irritation. Contact with hot material may cause thermal burns.

Skin contact May cause skin irritation and/or dermatitis. May be absorbed through the skin in harmful

amounts. Effects may become more serious with repeated or prolonged contact. Contact

with hot material may cause thermal burns.

Ingestion Harmful if swallowed. May be fatal if swallowed or vomited and enters airways. May cause

irritation of the mouth, throat and gastrointestinal tract.

### Acute Toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Naphthalene 91-20-3	490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m³ (Rat) 1 h
Indene 95-13-6	-	-	-
2-methylnaphthalene 91-57-6	1630 mg/kg (Rat)	> 2500 mg/kg (Rat)	-

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

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NAPHTHALENE: Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from overexposure to naphthalene. Persons with glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have been reported in persons overexposed to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect. Hemolytic anemia has been observed in laboratory animals exposed to naphthalene. Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) in vitro. Naphthalene has been classified as Possibly Carcinogenic to Humans (2B) by IARC, based on findings from studies in laboratory animals.

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### Adverse effects related to the physical, chemical and toxicological characteristics

Signs & Symptoms Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

Contact with hot product may cause burns. Causes damage to organs (blood).

**Sensitization** Not expected to be a skin or respiratory sensitizer.

Mutagenic effects None known.

**Carcinogenicity** Cancer designations are listed in the table below.

		<u> </u>		
Name	ACGIH	IARC	NTP	OSHA
	(Class)	(Class)		
Naphthalene	Confirmed animal	Possible human carcinogen	Reasonably anticipated to	Not Listed
91-20-3	carcinogen (A3)	(2B)	be a human carcinogen	
Indene	Not Listed	Not Listed	Not Listed	Not Listed
95-13-6				
2-methylnaphthalene	Not Classifiable (A4)	Not Listed	Not Listed	Not Listed
91-57-6	1			

Reproductive toxicity None known.

Specific Target Organ Toxicity (STOT) - single exposure

Blood.

Specific Target Organ Toxicity (STOT) - repeated exposure

Not classified.

**Aspiration hazard** May be fatal if swallowed or vomited and enters airways.

Unknown Acute Toxicity 25% of the mixture consists of ingredient(s) of unknown toxicity

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**This product should be considered very toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Naphthalene 91-20-3	-	96-hr LC50 = 0.91-2.82 mg/l Rainbow trout (static) 96-hr LC50 = 1.99 mg/l Fathead minnow (static)	-	48-hr LC50 = 1.6 mg/l Daphnia magna
Indene 95-13-6	-	-	-	-
2-methylnaphthalene 91-57-6	-	96-hr LC50 = 1.07-1.84 mg/l Rainbow trout (static)	-	-

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Oil

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Persistence and degradability Readily biodegradable in the environment.

<u>Bioaccummulation</u> Not expected to bioaccumulate in aquatic organisms.

**Mobility in soil** May partition into air, soil and water.

Other adverse effects No information available.

# 13. DISPOSAL CONSIDERATIONS

#### **Description of Waste Residues**

This material may be a flammable liquid waste.

### Safe Handling of Wastes

Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required. Use appropriate grounding and bonding practices. Use only non-sparking tools. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking.

### Disposal of Wastes / Methods of Disposal

The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

### **Methods of Contaminated Packaging Disposal**

Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

### 14. TRANSPORT INFORMATION

DOT (49 CFR 172.101):

**UN Proper shipping name:** Flammable Liquids, N.O.S. (Contains Naphthalene)

UN/Identification No: UN 1993
Transport Hazard Class(es): 3
Packing group: III

DOT reportable quantity (lbs): 100 pounds.

TDG (Canada):

**UN Proper shipping name:** Flammable Liquids, N.O.S. (Contains Naphthalene)

UN/Identification No: UN 1993
Transport Hazard Class(es): 3
Packing group: III

Regulated substances: 100 pounds.

# 15. REGULATORY INFORMATION

### **US Federal Regulatory Information:**

US TSCA Chemical Inventory Section 8(b): This product and/or its components are listed on the TSCA

Chemical Inventory.

### EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302: This product does not contain any component(s) included on EPA's Extremely Hazardous

Substance (EHS) List.

Substance (E113) List.		
Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs	
Naphthalene	NA	
Indene	NA NA	

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2-methylnaphthalene	NA

SARA Section 304: This product may contain component(s) identified either as an EHS or a CERCLA

Hazardous substance which in case of a spill or release may be subject to SARA reporting

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requirements:

Name	CERCLA/SARA - Hazardous Substances and their	
	Reportable Quantities	
Naphthalene	100 lb final RQ 45.4 kg final RQ	
Indene	NA	
2-methylnaphthalene	NA	

SARA: The following EPA hazard categories apply to this product:

Acute Health Hazard

Fire Hazard

Chronic Health Hazard

SARA Section 313: This product may contain component(s), which if in exceedance of the de minimus

threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic

Release Reporting (Form R).

Name	CERCLA/SARA 313 Emission reporting:
Naphthalene	0.1 % de minimis concentration
Indene	None
2-methylnaphthalene	None

### State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

Naphthalene

Louisiana Right-To-Know: Not Listed.

California Proposition 65: Carcinogen, initial date 4/19/02

New Jersey Right-To-Know: SN 1322 SN 3758

Pennsylvania Right-To-Know: Environmental hazard Present (particulate)

Massachusetts Right-To Know:

Florida Substance List:

Rhode Island Right-To-Know:

Michigan Critical Materials Register List:

Massachusetts Extraordinarily Hazardous Substances:

Present

Not Listed.

Not Listed.

Not Listed.

Massachusetts Extraordinarily Hazardous Substances: Not Listed. California - Regulated Carcinogens: Not Listed. Pennsylvania RTK - Special Hazardous Not Listed.

Substances:

New Jersey - Special Hazardous Substances: Carcinogen

New Jersey - Environmental Hazardous SN 1322 TPQ: 500 lb (Reportable at the de minimis quantity of

Substances List: >0.1%)
Illinois - Toxic Air Contaminants Present

New York - Reporting of Releases Part 597 - 100 lb RQ (air); 1 lb RQ (land/water)

List of Hazardous Substances:

Indene

Louisiana Right-To-Know:

California Proposition 65:

New Jersey Right-To-Know:

Not Listed.

Not Listed.

Not Listed.

Not Listed.

Not Listed.

Not Listed.

Pennsylvania Right-To-Know: Present (particulate) Environmental hazard

Massachusetts Right-To Know:

Florida Substance List:

Rhode Island Right-To-Know:

Michigan Critical Materials Register List:

Massachusetts Extraordinarily Hazardous Substances:

California - Regulated Carcinogens:

Present

Not Listed.

Not Listed.

Not Listed.

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Not Listed.

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Pennsylvania RTK - Special Hazardous

Substances:

New Jersey - Special Hazardous Substances: Not Listed. New Jersey - Environmental Hazardous Not Listed.

Substances List:

Illinois - Toxic Air Contaminants Present (total) New York - Reporting of Releases Part 597 -Not Listed.

List of Hazardous Substances:

2-methylnaphthalene

Louisiana Right-To-Know: Not Listed. California Proposition 65: Not Listed. New Jersey Right-To-Know: SN 4200 Pennsylvania Right-To-Know: Not Listed. Massachusetts Right-To Know: Not Listed. Florida Substance List: Not Listed. Rhode Island Right-To-Know: Not Listed. Michigan Critical Materials Register List: Not Listed. Massachusetts Extraordinarily Hazardous Substances: Not Listed. California - Regulated Carcinogens: Not Listed. Pennsylvania RTK - Special Hazardous Not Listed. Substances: New Jersey - Special Hazardous Substances: Not Listed. New Jersey - Environmental Hazardous Not Listed. Substances List: Illinois - Toxic Air Contaminants Not Listed.

New York - Reporting of Releases Part 597 -Not Listed.

List of Hazardous Substances:

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL)

or are exempt.

"This product has been classified in accordance with the hazard criteria of the Controlled **Canadian Regulatory Information:** 

Products Regulations and the (M)SDS contains all the information required by the

Controlled Products Regulations."

Name	Canada - WHMIS: Classifications of	Canada - WHMIS: Ingredient
	Substances:	Disclosure:
Naphthalene	B4,D2A	0.1%
Indene	B3	1%
2-methylnaphthalene	Uncontrolled product according to WHMIS classification criteria	1



NOTE: Not Applicable.

# **16. OTHER INFORMATION**

**Prepared By** Toxicology and Product Safety

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### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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