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SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 42397

NAME: 3,4-Benzopyrene (purified by sublimation)

SYNONYMS: Benzo[a]pyrene (purified by sublimation)

24 HOUR EMERGENCY

TELEPHONE:

(800) 535-5053(USA)

352-323-3500 (INTERNATIONAL)

TO REQUEST AN MSDS: (800) 869-9290

CUSTOMER SERVICE:

(630) 766-2112

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)

SKIN SENSITISATION (CATEGORY 1), H317 GERM CELL MUTAGENICITY (CATEGORY 1B), H340 CARCINOGENICITY (CATEGORY 1B), H350 REPRODUCTIVE TOXICITY (CATEGORY 1B), H360 SHORT-TERM (ACUTE) AQUATIC HAZARD (CATEGORY 1), H400 LONG-TERM (CHRONIC) AQUATIC HAZARD (CATEGORY 1), H410 FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM

SIGNAL WORD DANGER

HAZARD STATEMENT(S)

H317 MAY CAUSE AN ALLERGIC SKIN REACTION.

H340 MAY CAUSE GENETIC DEFECTS.

H350 MAY CAUSE CANCER.

H360 MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PRECAUTIONARY STATEMENT(S)

P201 OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN

READ AND UNDERSTOOD.

P261 AVOID BREATHING DUST/ FUME/ GAS/ MIST/ VAPORS/ SPRAY.

P272 CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED

OUT OF THE WORKPLACE.

P273 AVOID RELEASE TO THE ENVIRONMENT.

P280 WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE

PROTECTION/ FACE PROTECTION.

P302 + P352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.

P308 + P313 IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/

ATTENTION.

P333 + P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/

ATTENTION.

P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.

P391 COLLECT SPILLAGE. P405 STORE LOCKED UP.

P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE

DISPOSAL PLANT.

HAZARDS NOT NONE

OTHERWISE

CLASSIFIED (HNOC) OR NOT COVERED

BY GHS

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF: $C_{20}H_{12}$

MW: 252.32

CAS-NO. 50-32-8

PURITY: \geq 99% (GC)

HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION		
3,4-Benzopyrene (purified by sublimation)				
	SKIN SENS. 1; MUTA. 1B; CARC.	<= 100%		
	1B; REPR. 1B; AQUATIC ACUTE			
	1; AQUATIC CHRONIC 1; H317,			
	H340, H350, H360, H400, H410			
	CONCENTRATION LIMITS:			
	>= 0.01 %: CARC. 1B, H350;			
	M-FACTOR - AQUATIC ACUTE:			
	10			

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

SECTION 4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE	SHOW THIS MATERIAL SAFETY DATA SHEET TO THE

DOCTOR IN ATTENDANCE.

IF INHALED AFTER INHALATION: FRESH AIR. CALL IN PHYSICIAN.

IN CASE OF SKIN CONTACT: TAKE OFF IMMEDIATELY ALL IN CASE OF SKIN CONTACT

CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/

SHOWER. CONSULT A PHYSICIAN.

IN CASE OF EYE AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF

CONTACT WATER. CALL IN OPHTHALMOLOGIST. REMOVE CONTACT

LENSES.

IF SWALLOWED AFTER SWALLOWING: IMMEDIATELY MAKE VICTIM DRINK

WATER (TWO GLASSES AT MOST). CONSULT A PHYSICIAN

MOST IMPORTANT THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS

SYMPTOMS AND ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2)

EFFECTS, BOTH ACUTE AND/OR IN SECTION 11.

AND DELAYED

INDICATION OF ANY NO DATA AVAILABLE

IMMEDIATE MEDICAL ATTENTION AND SPECIAL

TREATMENT NEEDED

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

SUITABLE SUITABLE EXTINGUISHING MEDIA

EXTINGUISHING MEDIA WATER FOAM CARBON DIOXIDE (CO2) DRY POWDER

UNSUITABLE EXTINGUISHING MEDIA

FOR THIS SUBSTANCE/MIXTURE NO LIMITATIONS OF

EXTINGUISHING AGENTS ARE GIVEN.

SPECIAL HAZARDS NATURE OF DECOMPOSITION PRODUCTS NOT KNOWN.

ARISING FROM THE COMBUSTIBLE.

SUBSTANCE OR MIXTURE DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR

VAPOURS POSSIBLE IN THE EVENT OF FIRE.

ADVICE FOR STAY IN DANGER AREA ONLY WITH SELF-CONTAINED BREATHING APPARATUS. PREVENT SKIN CONTACT BY

KEEPING A SAFE DISTANCE OR BY WEARING SUITABLE

PROTECTIVE CLOTHING.

FURTHER INFORMATION PREVENT FIRE EXTINGUISHING WATER FROM

CONTAMINATING SURFACE WATER OR THE GROUND

WATER SYSTEM.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL
PRECAUTIONS,
PROTECTIVE EQUIPMENT

AND EMERGENCY PROCEDURES

ADVICE FOR NON-EMERGENCY PERSONNEL: AVOID GENERATION AND INHALATION OF DUSTS IN ALL

CIRCUMSTANCES. AVOID SUBSTANCE CONTACT. ENSURE ADEQUATE VENTILATION. EVACUATE THE DANGER AREA, OBSERVE EMERGENCY PROCEDURES, CONSULT AN

EXPERT.

FOR PERSONAL PROTECTION SEE SECTION 8.

ENVIRONMENTAL PRECAUTIONS

DO NOT LET PRODUCT ENTER DRAINS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

COVER DRAINS. COLLECT, BIND, AND PUMP OFF SPILLS. OBSERVE POSSIBLE MATERIAL RESTRICTIONS (SEE SECTIONS 7 AND 10). DISPOSE OF PROPERLY. CLEAN UP

AFFECTED AREA.

REFERENCE TO OTHER SECTIONS

FOR DISPOSAL SEE SECTION 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE WORK UNDER HOOD. DO NOT INHALE

HANDLING SUBSTANCE/MIXTURE.

FOR PRECAUTIONS SEE SECTION 2.2.

CONDITIONS FOR SAFE TIGHTLY CLOSED. DRY. KEEP IN A WELL-VENTILATED PLACE. KEEP LOCKED UP OR IN AN AREA ACCESSIBLE

ANY INCOMPATIBILITIES ONLY TO QUALIFIED OR AUTHORIZED PERSONS.

Store at \leq -10 °C

SPECIFIC END USE(S) APART FROM THE USES MENTIONED IN SECTION 1.2 NO

OTHER SPECIFIC USES ARE STIPULATED.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

COMPONENT	CAS-NO.	VALUE	CONTROL	BASIS
			PARAMETERS	
	REMARKS	CANCER		
		SUBSTANCES FOR WHICH THERE IS A BIOLOGICAL EXPOSURE		
		INDEX OR INDICES (SEE BEI SECTION), SEE BEI FOR		
		POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)		
		EXPOSURE BY ALL ROUTES SHOULD BE CAREFULLY		
		CONTROLLED TO LEVELS AS LOW AS POSSIBLE.		
		SUSPECTED HUMAN CARCINOGEN		
3,4-Benzopyrene	50-32-8	TWA	0.2 MG/M3	USA. OCCUPATIONAL
(purified by				EXPOSURE LIMITS
sublimation)				(OSHA) - TABLE Z-1
				LIMITS FOR AIR
				CONTAMINANTS
		1910.1002 AS USED IN 1910.1000 (TABLE Z-1), COAL TAR PITCH VOLATILES		
		INCLUDE THE FUSED POLYCYCLIC HYDROCARBONS WHICH		
		VOLATILIZE FROM THE DISTILLATION RESIDUES OF COAL,		
		PETROLEUM (EXCLUDING ASPHALT), WOOD, AND OTHER		
		ORGANIC MATTER. ASPHALT (CAS 8052-42-4, AND CAS 64742-93-4)		
		IS NOT COVERED UNDER THE "COAL TAR PITCH VOLATILES"		
		STANDARD		
		OSHA SPECIFICALLY REGULATED CARCINOGEN		

TWA	0.1 MG/M3	USA. NIOSH	
		RECOMMENDED	
		EXPOSURE LIMITS	
POTENTIAL OCCUPATIONAL CARCINOGEN			
NIOSH CONSIDERS COAL TAR, COAL TAR PITCH, AND CREOSOTE			
TO BE COAL TAR PRODUCTS.			
CYCLOHEXANE-EXTRACTABLE FRACTION			
SEE APPENDIX C			
SEE APPENDIX A			
PEL	0.2 MG/M3	CALIFORNIA	
		PERMISSIBLE	
		EXPOSURE LIMITS FOR	
		CHEMICAL	
		CONTAMINANTS	
COAL TAR PITCH VOLATILES (BENZENE OR CYCLOHEXANE-			
SOLUBLE FRACTION) INCLUDE FUSED POLYCYCLIC			
HYDROCARBONS (SOME OF WHICH ARE KNOWN CARCINOGENS)			
WHICH VOLATILIZE FROM THE DISTILLATION RESIDUES OF			
COAL, PETROLEUM (EXCLUDING ASPHALT), WOOD, AND OTHER			
ORGANIC MATTER. ASPHALT (CAS 8052-42-4, AND CAS 64742-93-4)			
IS NOT COVERED UNDER THE "COAL TAR PITCH VOLATILES"			
STANDARD.			
PEL	0.2 MG/M3	CALIFORNIA	
		PERMISSIBLE	
		EXPOSURE LIMITS FOR	
		CHEMICAL	
		CONTAMINANTS	
		OR CYCLOHEXANE-	
SOLUBLE FRACTION) INCLUDE FUSED POLYCYCLIC			
HYDROCARBONS (SOME OF WHICH ARE KNOWN CARCINOGENS)			
WHICH VOLATILIZE FROM THE DISTILLATION RESIDUES OF			
COAL, PETROLEUM (EXCLUDING ASPHALT), WOOD, AND OTHER			
ORGANIC MATTER. ASPHALT (CAS 8052-42-4, AND CAS 64742-93-4)			
IS NOT COVERED UNDER THE "COAL TAR PITCH VOLATILES"			
STANDARD.			

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS

COMPONENT	CAS-NO.	PARAMETERS	VALUE	BIOLOGICAL	BASIS
				SPECIMEN	
3,4-Benzopyrene	50-32-8	1- HYDROXYPYRENE	2.5 G/L	URINE	ACGIH -
(purified by					BIOLOGICAL
sublimation)					EXPOSURE
					INDICES (BEI)
	REMARKS	END OF SHIFT AT END OF WORKWEEK			
		3-		URINE	ACGIH -
		HYDROXYBENZO(A)PYRENE	,		BIOLOGICAL
					EXPOSURE
					INDICES (BEI)
		END OF SHIFT AT END OF WORKWEEK			

APPROPRIATE ENGINEERING CONTROLS IMMEDIATELY CHANGE CONTAMINATED CLOTHING. APPLY PREVENTIVE SKIN PROTECTION. WASH HANDS AND FACE AFTER

WORKING WITH SUBSTANCE.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED

UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH

(US) OR EN 166(EU). SAFETY GLASSES

SKIN PROTECTION HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO

USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVE"S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER

USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD

LABORATORY PRACTICES. WASH AND DRY HANDS.

FULL CONTACT

MATERIAL: NITRILE RUBBER

MINIMUM LAYER THICKNESS: 0.11 MM

BREAK THROUGH TIME: 480 MIN

MATERIAL TESTED: DERMATRIL (KCL 740, SIZE M)

SPLASH CONTACT

MATERIAL: NITRILE RUBBER

MINIMUM LAYER THICKNESS: 0.11 MM

BREAK THROUGH TIME: 480 MIN

MATERIAL TESTED: DERMATRIL (KCL 740, SIZE M)

IF USED IN SOLUTION, OR MIXED WITH OTHER SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER FROM EN 374, CONTACT THE SUPPLIER OF THE EC APPROVED GLOVES. THIS RECOMMENDATION IS ADVISORY ONLY AND MUST BE EVALUATED BY AN INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC SITUATION OF ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD

NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR ANY

SPECIFIC USE SCENARIO.

BODY PROTECTION

PROTECTIVE CLOTHING

RESPIRATORY PROTECTION

REOUIRED WHEN DUSTS ARE GENERATED.

OUR RECOMMENDATIONS ON FILTERING RESPIRATORY

PROTECTION ARE BASED ON THE FOLLOWING STANDARDS: DIN EN 143, DIN 14387 AND OTHER ACCOMPANYING STANDARDS RELATING

TO THE USED RESPIRATORY PROTECTION SYSTEM.

CONTROL OF ENVIRONMENTAL EXPOSURE DO NOT LET PRODUCT ENTER DRAINS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Light yellow, amber or dark green crystalline powder

ODOUR WEAKLY AROMATIC
ODOUR THRESHOLD NO DATA AVAILABLE
PH NO DATA AVAILABLE

MELTING 176 - 180 °C

POINT/FREEZING POINT

INITIAL BOILING POINT 496 °C

AND BOILING RANGE

FLASH POINT

EVAPOURATION RATE NO DATA AVAILABLE FLAMMABILITY (SOLID, NO DATA AVAILABLE

GAS)

UPPER/LOWER NO DATA AVAILABLE

FLAMMABILITY OR EXPLOSIVE LIMITS

VAPOUR PRESSURE NO DATA AVAILABLE VAPOUR DENSITY NO DATA AVAILABLE

RELATIVE DENSITY

WATER SOLUBILITY NO DATA AVAILABLE PARTITION COEFFICIENT: NO DATA AVAILABLE

N- OCTANOL/WATER

AUTO-IGNITION NO DATA AVAILABLE

TEMPERATURE

DECOMPOSITION NO DATA AVAILABLE

TEMPERATURE

VISCOSITY NO DATA AVAILABLE EXPLOSIVE PROPERTIES NO DATA AVAILABLE OXIDIZING PROPERTIES NO DATA AVAILABLE

OTHER SAFETY INFORMATION

NO DATA AVAILABLE

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY THE FOLLOWING APPLIES IN GENERAL TO FLAMMABLE

ORGANIC SUBSTANCES AND MIXTURES: IN

CORRESPONDINGLY FINE DISTRIBUTION, WHEN WHIRLED UP A DUST EXPLOSION POTENTIAL MAY GENERALLY BE

ASSUMED.

CHEMICAL STABILITY THE PRODUCT IS CHEMICALLY STABLE UNDER STANDARD

AMBIENT CONDITIONS

POSSIBILITY OF NO DATA AVAILABLE

HAZARDOUS REACTIONS

CONDITIONS TO AVOID NO DATA AVAILABLE

INCOMPATIBLE STRONG OXIDIZING AGENTS

MATERIALS

HAZARDOUS OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE DECOMPOSITION HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER

PRODUCTS FIRE CONDITIONS. - NATURE OF DECOMPOSITION

PRODUCTS NOT KNOWN.

IN THE EVENT OF FIRE: SEE SECTION 5

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY NO DATA AVAILABLE

INHALATION: NO DATA AVAILABLE

DERMAL: NO DATA AVAILABLE

NO DATA AVAILABLE

SKIN SKIN - MOUSE

CORROSION/IRRITATION RESULT: MILD SKIN IRRITATION

REMARKS: (RTECS)

SERIOUS EYE NO DATA AVAILABLE

DAMAGE/EYE IRRITATION

MAY CAUSE ALLERGIC SKIN REACTION. CLASSIFIED **RESPIRATORY OR SKIN SENSITISATION**

ACCORDING TO REGULATION (EU) 1272/2008, ANNEX VI

(TABLE 3.1/3.2)

GERM CELL MAY CAUSE GENETIC DEFECTS.

MUTAGENICITY AMES TEST

SALMONELLA TYPHIMURIUM

RESULT: POSITIVE

(LIT.)

MUTAGENICITY (MAMMAL CELL TEST): CHROMOSOME

ABERRATION.

CHINESE HAMSTER OVARY CELLS

RESULT: POSITIVE

(NATIONAL TOXICOLOGY PROGRAM) SISTER CHROMATID EXCHANGE ASSAY CHINESE HAMSTER OVARY CELLS

RESULT: POSITIVE

(NATIONAL TOXICOLOGY PROGRAM)

MOUSE - MALE - BONE MARROW

RESULT: POSITIVE

(NATIONAL TOXICOLOGY PROGRAM)

CARCINOGENICITY

PRESUMED TO HAVE CARCINOGENIC POTENTIAL FOR HUMANS

IARC: 1 - GROUP 1: CARCINOGENIC TO HUMANS

NTP: NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS

GREATER THAN OR EOUAL TO 0.1% IS IDENTIFIED AS A

KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

OSHA: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS

GREATER THAN OR EQUAL TO 0.1% IS ON OSHA S LIST OF

REGULATED CARCINOGENS.

MAY DAMAGE THE UNBORN CHILD. REPRODUCTIVE TOXICITY

MAY DAMAGE FERTILITY.

SPECIFIC TARGET ORGAN

TOXICITY - SINGLE

EXPOSURE

NO DATA AVAILABLE

SPECIFIC TARGET ORGAN

TOXICITY - REPEATED

EXPOSURE

NO DATA AVAILABLE

ASPIRATION HAZARD NO DATA AVAILABLE

ADDITIONAL

RTECS: DJ3675000

INFORMATION

BURNING SENSATION, COUGH, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA, VOMITING TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL. AND TOXICOLOGICAL PROPERTIES HAVE NOT

BEEN THOROUGHLY INVESTIGATED.

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY

TOXICITY TO DAPHNIA AND OTHER AQUATIC EC50 - DAPHNIA MAGNA (WATER FLEA) - 0.25 MG/L - 48 H REMARKS: (ABOVE THE SOLUBILITY LIMIT IN THE TEST

INVERTEBRATES MEDIUM) (ECOTOX DATABASE)

TOXICITY TO ALGAE STATIC TEST ERC50 - SCENEDESMUS ACUTUS - 0.005 MG/L

- 72 H

REMARKS: (ECOTOX DATABASE)

PERSISTENCE AND DEGRADABILITY

NO DATA AVAILABLE

BIOACCUMULATIVE POTENTIAL

BIOACCUMULATION LEPOMIS MACROCHIRUS (BLUEGILL) - 48 H

- 0.0005 MG/L

BIOCONCENTRATION FACTOR (BCF): 3,208

MOBILITY IN SOIL NO DATA AVAILABLE

RESULTS OF PBT AND VPVB

ASSESSMENT

PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED.

OTHER ADVERSE EFFECTS NO DATA AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

PRODUCT WASTE MATERIAL MUST BE DISPOSED OF IN

ACCORDANCE WITH THE NATIONAL AND LOC NO MIXING

WITH OTHER WASTE.

CONTAMINATED PACKAGING

DISPOSE OF AS UNUSED PRODUCT.

SECTION 14. TRANSPORT INFORMATION

DOT (US)

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (3,4-Benzopyrene (purified by sublimation))

UN NUMBER: 3077 CLASS: 9 PACKING GROUP: III
REPORTABLE QUANTITY 1 LBS

(RQ):

POISON INHALATION NO

HAZARD:

IMDG

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (3,4-Benzopyrene (purified by sublimation))

UN NUMBER: 3077
CLASS: 9
PACKING GROUP: III
EMS-NO: F-A, S-F
MARINE POLLUTANT: YES

IATA

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (3,4-Benzopyrene (purified by sublimation))

UN NUMBER: 3077 CLASS: 9 PACKING GROUP: III

FURTHER INFORMATION

EHS-MARK REQUIRED (IMDG CODE 2.10.3) FOR SINGLE PACKAGINGS AND COMBINATION PACKAGINGS CONTAINING INNER PACKAGINGS WITH DANGEROUS GOODS > 5L FOR LIQUIDS OR > 5KG FOR SOLIDS.

SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS

WITH A SECTION 302 EHS TPQ.

SARA 313 COMPONENTS

THE FOLLOWING COMPONENTS ARE SUBJECT TO REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313:

CAS-NO. REVISION DATE

3,4-Benzopyrene (purified by 50-32-8 03-01-2007

sublimation)

SARA 311/312 HAZARDS ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT.

SECTION 16. OTHER INFORMATION

H317 MAY CAUSE AN ALLERGIC SKIN REACTION.

H340 MAY CAUSE GENETIC DEFECTS.

H350 MAY CAUSE CANCER.

H360 MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

MSDS LEGEND

MW: MOLECULAR WEIGHT MF: MOLECULAR FORMULA

VOC: VOLATILE ORGANIC COMPOUNDS

ACGIH: AMERICAN CONFERENCE OF GOVERNMENENTAL INDUSTRIAL

HYGINISTS

CAS: CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PEL: PERMISSIBLE EXPOSURE LIMIT (OSHA)
TLV: THRESHOLD LIMIT VALUE (ACGIH)

IMPORTANT:

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