



MATERIAL SAFETY DATA SHEET

CARBON BLACK

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- 1). CHEMICAL NAME: CARBON BLACK
- 2). GENERAL CHARACTERISTICS: CARBON BLACK IS COMPOSED OF 90 ~ 99% OF C, OTHERS ARE O2 AND H2
- 3). USAGE: RAW MATERIALS OF TIRE, RUBBER, and PAINT INDUSTRY

COMPOSITION/INFORMATION ON INGREDIENTS

- 1). NAME: CARBON BLACK
- 2). CAS NO: 1333-86-4
- 3). % BY WT: APPROX. 100%

HAZARDS IDENTIFICATION

- 1). EYE: CARBON BLACK DUST MAY CAUSE IRRITATION OF THE EYE.
- 2). SKIN CONTACT: NOT IRRITATING
- 3). SKIN ABSORPTION: UNLIKELY TO OCCUR. CARBON BLACK IS DRY SOLID
- 4). INGESTION: NO KNOWN SPECIFIC EFFECTS
- 5). INHALATION: CARBON BLACK MAY BE IRRITATING TO THE LUNGS AT HIGH DUST LEVELS
- 6). TARGET ORGANS: LUNGS AND RESPIRATORY SYSTEM

FIRST AID MEASURES

- 1). EYE: FLUSH WITH WATER
- 2). SKIN: WASH WITH WATER AND MILD SOAP OR WATERLESS CLEANER
- 3). INGESTION: ENTRY BY MOUTH IS NOT LIKELY TO PRODUCE ADVERSE EFFECTS
- 4). INHALATION: REMOVE TO FRESH AIR



FIRE FIGHTING MEASURES

- 1). FLASH POINT: 500°C OVER
- 2). IGNITION IN AIR: 900°C.
- 3). LEL/UEL: NOT APPLICABLE
- 4). EXTINGUISHING MEDIA: WATER SPRAY. NORMAL FOG OR NOZZLE JET APPLICATION AND/OR EXCLUSION OF AIR
- 5). UNUSUAL FIRE HAZARD: CARBON MONOXIDE AND CARBON DIOXIDE ARE EMITTED WHEN BURNING.

IT MAY NOT BE OBVIOUS THAT CARBON BLACK IS BURNING UNLESS IT IS STIRRED AND SPARKS ARE APPARENT

ACCIDENTAL RELEASE MEASURES

- 1). VACUUM, SWEEP OR SPRAY WITH WATER AND COLLECT IN A DISPOSAL CONTAINER
- 2). SPILLED CARBON BLACK IS NOT A HAZARD WASTE.
- 3). DISPOSED OF IN ACCORDANCE WITH EUROPEAN NATIONAL AND LOCAL LAWS AND REGULATIONS

HANDLING AND STORAGE

- 1). KEEP IN CLOSED CONTAINERS. PREVENT EXPOSURE TO OPEN FLAMES AND STRONG OXIDIZERS.
- 2). TEST FOR CARBON MONOXIDE AND OXYGEN BEFORE ENTRY INTO CONFINED SPACES. WEAR APPROPRIATE RESPIRATOR FOR EXPOSURE TO CARBON MONOXIDE, CARBON DIOXIDE OR LACK OF OXYGEN.
- 3). AVOID CREATING DUST. CLEAN UP ALL SPILLS PROMPTLY

EXPOSURE CONTROLS/PERSONAL PROTECTION

- 1). RESPIRATORY PROTECTION: NONE REQUIRED IN NORMAL HANDLING. WEAR APPROVED RESPIRATORY FOR NUISANCE DUST IN ACCORDANCE WITH EUROPEAN, NATIONAL AND LOCAL LAWS AND REGULATION WHEN DUST LEVELS EXCEED THE RECOMMENDED EXPOSURE LIMIT.
- 2). PERSONAL PROTECTIVE EQUIPMENT: GLOVE - NOT REQUIRED EYE/FACE - NOT REQUIRED PROTECTIVE CLOTHING - NOT REQUIRED
- 3). ENGINEERING CONTROLS: RECOMMENDED ADEQUATE VENTILATION TO MAINTAIN EXPOSURE LEVELS BELOW THE RECOMMENDED EXPOSURE LIMIT. FOR VENTILATION CONSIDERATIONS.



PHYSICAL/CHEMICAL PROPERTIES

- 1). APPEARANCE: AMORPHOUS BLACK SOLID
- 2). ODOR: NONE
- 3). PH: 6 ~ 8
- 4). BOILING POINT: 4200°C
- 5). VAPOR PRESSURE: NOT APPLICABLE
- 6). SOLUBILITY IN WATER: NOT APPLICABLE
- 7). SPECIFIC GRAVITY: 1.7 ~ 2.1
- 8). VISCOSITY: NOT APPLICABLE

STABILITY AND REACTIVITY

- 1). STABILITY; STABLE
- 2). INCOMPATIBILITY: MATERIALS - STRONG OXIDIZERS SUCH AS CHLORATE, BROMATES, NITRATES CONDITIONS - EXCESSIVE HEAT OR FLAME
- 3). HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND CARBON DIOXIDE WHEN BURNING
- 4). HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

TOXICOLOGICAL INFORMATION

- 1). EYE: ACUTE - MILD IRRITANT, CHRONIC - MILD IRRITANT
- 2). SKIN: ACUTE - NONE EXPECTED, CHRONIC - NONE EXPECTED
- 3). INGESTION: ACUTE - NONE EXPECTED, CHRONIC - NONE EXPECTED
- 4). INHALATION: ACUTE - DUST CONCENTRATIONS ABOVE THE PERMISSIBLE EXPOSURE LIMIT MAY CAUSE TEMPORARY UPPER RESPIRATORY TRACT DISCOMFORT.

ECOLOGICAL INFORMATION

NO NEGATIVE ECOLOGICAL EFFECTS HAVE BEEN NOTED

DISPOSAL CONSIDERATIONS

CARBON BLACK IS NOT CLASSIFIED AS A TOXIC OR DANGEROUS WASTE. BURY OR BURN IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.



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TRANSPORT INFORMATION

CARBON BLACK IS NOT HAZARDOUS MATERIAL FOR U.S. DEPARTMENT OF TRANSPORTATION SHIPPING. NO DOT LABEL REQUIRED. CARBON BLACK (MINERAL ORIGINS) IS NOT RESTRICTED BY THE INTERNATIONAL MARITIME DANGEROUS GOODS CODE.

REGULATORY INFORMATION

U.S. TOXIC SUBSTANCES CONTROL ACT (TSCA)
EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES (EINECS)
CANADIAN DOMESTIC SUBSTANCES LIST (DSL)
AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS)
JAPANESE MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY (MITI)
KOREAN TOXIC CHEMICALS CONTROL LAW (TCCL)

OTHER INFORMATION

OTHER APPLICABLE GRADES OF CARBON BLACK ARE N220 N234 N326 N330 N339 N375 N550 N650 N660 N762 N772 N774.
PACKING IS IN THE FORM OF 20KG KRAFT PAPER BAG WITH PP BAG INSIDE.

