
MATERIAL SAFETY DATA SHEET

Issue Date 16-Mar-01

[1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : TUFTONE L1101 TONER

COMPANY : Kao Corporation
2-1-3,Bunka Sumidaku,TOKYO,131-8501 JAPAN

TELEPHONE NO. : 81-3-5630-7700(International Chemical Department)

EMERGENCY TELEPHONE NO. : 81-3-5630-7700(International Chemical Department)

[2.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE / MIXTURE : Mixture

CHEMICAL NAME : Toner
(GENERIC NAME)

CHEMICAL FORMULA : Not specified

CAS RN : Confidential

UN No. : Not applicable

EINECS : No

TSCA : Yes

OTHER INFORMATION : One component is not registered in EINECS, but registered in ELINCS.

[3.HAZARDS IDENTIFICATION]

FIRE AND EXPLOSION HAZARD : May cause risk of dust explosion.

POTENTIAL HEALTH EFFECTS : To the best of our investigation, no special hazards have to be mentioned.

ENVIRONMENTAL EFFECTS : To the best of our investigation, no information available.

[4.FIRST-AID MEASURES]

IN CASE OF EYE CONTACT : Immediately hold eyelids open and flush with a stream of water for at least 15 minutes. If necessary seek medical attention.

IN CASE OF SKIN CONTACT : Wash material off the skin with plenty of water and soap. If necessary seek medical attention.

IN CASE OF INHALATION : Remove person to fresh air. If necessary seek medical attention.

IN CASE OF INGESTION : Seek medical attention. Never give anything by mouth to an unconscious person. If possible, rinse out mouth and give one or two glasses of water or milk to drink.

[5.FIRE-FIGHTING MEASURES]

EXTINGUISHING MEASURES : Risk of producing harmful gases such as carbon monoxide and nitrogen oxides.Avoid inhalation of smoke or gases.

EXTINGUISHING AGENTS : In case of small fire use powder, carbon dioxide.
In case of large fire shut off air by spraying with water or foam.

[6.ACCIDENTAL RELEASE MEASURES]

: In case of spill vacuum material immediately. Then wipe up remainder in waste cloth.

[7.HANDLING AND STORAGE]

HANDLING : Fight fire from upwind position.
Avoid inhalation of dust.

STORAGE : Keep it free from moisture. Keep away from sources of ignition. Keep container tightly closed. Store in a dark and cool place.

[8.EXPOSURE CONTROLS / PERSONAL PROTECTION]

ACGIH(TLV) : (Carbon black)(1998)TWA 3.5 mg/m³

OSHA(PEL) : Not established

VENTILATION : Use local exhaust ventilation or general ventilation.

PROTECTIVE MEASURES

RESPIRATORY PROTECTIVE EQUIPMENTS	: Dust respirator
EYE PROTECTIVE EQUIPMENTS	: Safety goggles
HAND PROTECTIVE EQUIPMENTS	: Rubber gloves
PROTECTIVE CLOTHINGS	: Use as appropriate to situation.

[9.PHYSICAL AND CHEMICAL PROPERTIES]

APPEARANCE	: Black powder
ODOUR	: Odourless
BOILING POINT	: No data available
VAPOUR PRESSURE	: No data available
VAPOUR DENSITY	: No data available
VOLATILITY	: No
MELTING / FREEZING POINT	: No data available
SPECIFIC GRAVITY	: 1.2 (20.0C) , 1.2 (68.0F)
SOLUBILITY	
WATER SOLUBILITY	: Insoluble
SOLVENT SOLUBILITY	: A part of component is soluble in toluene, chloroform, tetrahydrofran.
pH	: No data available
VISCOSITY	: No data available
OCTANOL / WATER PARTITION COEFFICIENT	: No data available
OTHER INFORMATION	: None

[10.REACTIVITY AND STABILITY]

FLASH POINT	: Not applicable
AUTOIGNITION TEMPERATURE	: No data available
EXPLOSIVE LIMIT IN AIR(LEC)	: No data available
EXPLOSIVE LIMIT IN AIR(UEC)	: No data available
COMBUSTIBILITY	: Yes
OXIDIZABILITY	: No
SELF-REACTIVITY / EXPLOSIVITY	: This material may cause risk of dust explosion.
REACTIVITY AND STABILITY	: Stable in general.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS	: No information available
OTHER INFORMATION	: None

[11.TOXICOLOGICAL INFORMATION]

CORROSIVITY	: No data available
SKIN IRRITATION	: No data available
EYE IRRITATION	: No data available
SENSITIZATION	: No data available
ACUTE TOXICITY	: No data available
SUBCHRONIC EFFECTS	: No data available
CHRONIC EFFECTS	: No data available
CARCINOGENICITY	No data available
IARC	: Group 2B The agent is possibly carcinogenic to humans.(Carbon Group 3.The agent is not classifiable as to its carcinogenicity to humans.(silica)
NTP	: None of this product's components are listed
OSHA	: None of this product's components are listed

MUTAGENICITY	: Ames test (<i>Salmonella typhimurium</i> TA98,TA100,TA1535,TA1537,TA1538 <i>Escherichia coli</i> WP2uvrA) : Negative
REPRODUCTIVE EFFECTS	: No data available
TERATOGENICITY	: No data available
OTHER INFORMATION	: None

[12.ECOLOGICAL INFORMATION]

BIODEGRADABILITY	: No data available
BIOACCUMULATION	: No data available
FISH TOXICITY	: No data available
OTHER INFORMATION	: None

[13.DISPOSAL CONSIDERATIONS]

Review "HANDLING AND STORAGE(Section7)"
 Dispose of waste in accordance with local,state and federal regulations.
 Passed to a licensed waste contractor.
 Incinerate with little portions.
 Risk of producing harmful gases such as carbon monoxide and nitrogen oxides.

[14.TRANSPORTATION INFORMATION]

	Follow all regulations in your country or region.
PRECAUTIONS	: Review "ACCIDENTAL RELEASE MEASURES(Section6)" Review "HANDLING AND STORAGE(Section7)" Ensure containers without breakage or leakage. Keep away from water and humidity.. Pack, label and transport according to regulation.
PROPER SHIPPING NAME	: Non hazardous
HAZARD CLASS	: Not applicable
UN NO.	: Not applicable
PACKING GROUP	: Not applicable
HAZARD LABELS	: Not applicable

[15.REGULATORY INFORMATION]

	Follow all regulations in your country or region.
EINECS	: No
TSCA	: Yes

KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

[16.OTHER INFORMATION]

REFERENCES	: None
------------	--------

To the best of the manufacturer's knowledge,the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability(including liability for any direct, incidental,consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another ,in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacture cannot and does not guarantee that the hazards described herein are the only ones that exist.