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 81-3-5630-7700(International Chemical Department)

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

[2.COMPOSITION / INFORMATION ON INGERDIENTS]

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 MEASUARES]

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 : Dust respirator

EQUIPMENTS

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

: No data available **BOILING POINT** : No data available VAPOUR PRESSURE VAPOUR DENSITY : No data available

VOLATILITY Nο

MELTING / FREEZING POINT : No data available

SPECIFIC GRAVITY (20.0C), 1.2 : 1.2 (68.0F)

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : A part of component is soluble in toluene, chloroform, tetrahydrofran.

pΗ : No data available VISCOSITY : No data available OCTANOL / WATER : No data available

PARTITION COEFFICIENT

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

> : Group 2B The agent is possibly carcinogenic to humans.(Carbon IARC

> > 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 KCDS-No. 006182 -03 (TUFTONE L1101 TONER) 3 / 3 Page

MUTAGENICITY : Ames test (Salmonella typhimurium

TA98, TA100, TA1535, TA1537, TA1538 Escherichia coli 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

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