Material Safety Data Sheet

Section 1.

IDENTITY: Tamiya STN-1 Red brown	ADRESS: 5-1,Nishi Shinkoiwa 3-chome,Katsushika-ku, Tokyo ,Japan
CHEMICAL NAME : Solvent based pigment dispersion	EMERGENCY TELEPHONE NUMBER: +81-(0)3-3691-8101(Japan)
MANUFACTURES NAME: TAISEI CHEMICAL INDUSTRIES,LTD.	FACSIMILE NUMBER FOR INFORMATION: +81-(0)3-5698-7676(Japan)

Section 2. Hazardous Ingredients/Identity Information.

HAZARDOUS INGREDIENTS	(CAS No)	OSHA PEL	ACGIH TLV	%
Acrylic copolymer	Not hazardous	———	———	7～12
Isobutyl acetate	110-19-0	150ppm	150ppm	20
Butyl acetate	123-86-4	150ppm	150ppm	13
Butyl cellosolve	111-76-2	50ppm	25ppm	8
3-Methoxybutyl acetate	4435-53-4	———	———	1
Propylenglycol Monomethylether acetate	108-65-6	———	———	2
Isobutyl alcohol	78-83-1	100ppm	50ppm	29
sec-butyl alcohol	78-92-2	150ppm	100ppm	5
Dibutyl phthalate	84-74-2	5 mg/m^3	5 mg/m^3	1.2
Nitrosellulose	9004-70-0	———	———	3
Diatomaceous eath	7631-86-9	80 mg/ m^3	10 mg/ m^3	2

Section 3. Physical/Chemical Characteristics

BOILING POINT: 99.5～171.2℃	SPECIFIC GRAVITY: ca.0.9
VAPORE PRESSURE(mmHg): 185mmHg(as Acetone)	MELTING POINT: Unknown
VAPOR DENSITY(AIR=1): Unknown	EVAPORATION RATE(Butyl Acetate=1): Unknown
SOLUBILITY IN WATER: Insoluble	APPEARANCE AND ODOR: ・Red brown ・Slight odor

Section 4. Fire and Explosion Hazard Data

FLASH POINT(METHOD USED):	FLAMMABLE LIMITS:

17℃	Lower 1.1vol% Upper 15.0vol%
EXTIGUISHING MEDIA: CO_2,Foam Dry powder	
SPECIAL FIRE FIGHTING PROCEDURES: Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus Wear full protective equipment. Hazardous gases/vapors produced in fire are carbon monoxide, organic acids and aldehydes.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: Mixture with air by some range may get explosion with fire point. May catch fire with ignition or flame or sparks, Must be kept away from them.	

Section 5. Reactivity Data

STABILITY: Stable	CONDITIONS TO AVOID: Hot condition
IMCOMPATIBILITY(MATERIALS TO AVOID): Nitric acid, oxidizing agent	HAZARDOUS DECOMPOSITION AND BYPRODUCTS: None
HAZARDOUS POLYMERIZATION: Will not occur	

Section 6. Health Hazard Data

RUTE(S) OF ENTRY:	INHALATION ?	SKIN ?	INGESTION ?
	Yes	Yes	Yes

HEALTH HAZARDS:	ORAL-TOXICITY	INHALATION-TOXICITY
Acrylic copolymer	Not available	Not available
Isobutyl acetate	LD_{50}(rat)=15400mg/kg	$LCLo$(rat)=8000ppm/4H
Butyl acetate	LD_{50}(rat)=14870mg/kg	LC_{50}(rat)=2000ppm/4H
Butyl cellosolve	LD_{50}(rat)=500mg/kg	LC_{50}(mouse)=450ppm/4H
3-Methoxybutyl acetate	LD_{50}(rat)=4210mg/kg	Not available
Propylenglycol Monomethylether acetate	LD_{50}(rat)=8500mg/kg	LC_{50}(mouse)=4350ppm
Isobutyl alcohol	LD_{50}(rat)=2460mg/kg	$LCLo$(rat)=8000ppm/4H
sec-butyl alcohol	LD_{50}(rat)=6480mg/kg	$LCLo$(rat)=16000ppm/4H
Dibutyl phthalate	LD_{50}(rat)=8000mg/kg	Not available
Nitrosellulose	LD_{50}(rat)=5000mg/kg	Not available
Diatomaceous eath	LD_{50}(rat)=3160mg/kg	Not available

CARCINOGENCITY:	NTP ?	IARC MONOGRAPHS ?	OSHA REGULATED ?
Acrylic copolymer	No	No	No
Butyl acetate	No	No	No
Isobutyl acetate	No	No	No
Butyl cellosolve	No	No	No
3-Methoxybutyl acetate	No	No	No
Propylenglycol Monomethylether acetate	No	No	No
Isobutyl alcohol	No	No	No
sec-butyl alcohol	No	No	No
Dibutyl phthalate	No	No	No
Nitrosellulose	No	No	No
Diatomaceous eath	No	No	No

SIGNS AND SYMPTOMS OF EXPOSURE:

Skin: May cause irritation or rush upon prolonged contact.

Mucous, Membrance: May cause rash upon inhalation.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Immediately wash eyes with running water for 15 minutes.
If irritation will develop get medical attention.

Skin: Wash affected areas with soap and water. If irritation will develop, get medical attention.

Mucous, Membrance:I mmediately gargle. If irritation will develop get medical attention.

Inhalation: Immediately move to fresh air area, and call a physician.

Ingestion: Immediately dilute with water and induce vomiting ,call a physician.

Section 7. Precautions for Safe Handing and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Smaller spilled materials may be wiped by cloth.

Do mot allow spilled liquid to enter sewers.

Must change the vapor of the spilled materials to fresh air.

DISPOSAL OF WASTE:

Dispose in accordance with local and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store containers in clear and cool area with adequate ventilation.

Keep containers closed.

Shelter containers from the direct sunlight.

Section 8. Control Measures

RESPIRATORY PROTECTION:

Use NIOSH/OSHA approved respiratory protection.

VENTILATION: Should be mostly adequate.	
PROTECTIVE GLOVES: Wear chemical resistant gloves.	EYE PROTECTION: Use safety glasses.
OTHER PROTECTIVE CLOTHING EQUIPMENT: Wear chemical resistant clothing to prevent any contact with this product, such as gloves, apron, boots or whole bodysuit, as appropriate.	