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PART 1. SHEET METAL

1.0 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Sheet Metal

Company Distributor: Keystone Automotive Industries

700 East Bonita Avenue

Pomona, CA 91767

Company Phone: 1-800-772-5557

Manufactured By: Jui Li Enterprise Co. LTD./China Steel Corporation

Tel: 886-7-343-8301/Tel 886-7-802-1111


Product Use: Replacement Crash Part.

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	% BY WEIGHT
Iron (Fe) OSHA PELs 10 mg/m ³ , ACGIH TLVs 5mg/m ³	#7439 89 6	>99%
Carbon (C)	#7440 44 0	
Manganese (Mn)	#7439 96 5	
Chromium (Cr)	#7440 47 3	
Nickel (Ni)	#7440 02 0	

3.0 HAZARDS IDENTIFICATION

Carbon steel is poorly absorbed through the skin or alimentary canal because as a solid it is not considered an inhalation hazard. Operation such as welding or dust or

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fume generation could allow exposure to the elements present in the specific alloy. Therefore, it is important to maintain exposure levels below regulated levels as noted in Section 2.

4.0 FIRST AID MEASURES

Inhalation: Move to fresh air, restore, and/or support breathing as required.

Eye Contact: Protect eyes from particulates or fumes.

Skin Contact: Protect skin from heat or hot procedures.

Ingestion: Not applicable

5.0 FIRE FIGHTING MEASURES

Flash Point: Noncombustible.

LEL: Not applicable.

UEL: Not applicable.


Extinguishing Media: Will not burn , use water to cool.

Unusual Fire or Explosion Hazards: Fine metal particles produced when ground, sawed , etc., can burn. High concentration of fines (fine particles) in the air may present an explosion hazard. Good housekeeping and adequate ventilation are recommended. Use air-supplied or self-contained breathing apparatus if fires are in enclosed areas.

Hazardous Combustion Products: May produce fumes of ferric oxide.

6.0 ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Notify safety personnel. Isolate hazard area, deny entry, and stay upwind. Shut off all ignition sources-no flares, smoking, or flames in hazard area.

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Small spills: Avoid dust generation by cleaning small spills with a damp mop. Since finely divided iron powder is explosive, take special care during cleanup.

Large spills: Flush material with a stream of water and dike for later disposal.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

7.0 HANDLING AND STORAGE

Handling Controls: Train employees on the proper use and handling. Avoid generating dusting condition. Use only with ventilation sufficient to maintain airborne concentration as low as possible. Where dusty conditions exist, use of dust-proof goggles and appropriate respirator are recommended (see Section 8) along with appropriate personal protective equipment when working with this material.

Storage Requirements: Store in a cool, dry, well-ventilated area away from flammable gases or liquids, oxidizing materials, or organic peroxides.


8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: Use NIOSH/MSHA-approved dust/fume respirator when airborne concentrations exceed the TLV/PEL when engaged in dust or fume-generating operations. Use air-supplied or self-contained breathing apparatus in confined spaces. Use only in accordance with 29 CFR 1910.134.

Ventilation: Use local exhaust during airborne fume or dust generation.

Eye protection: Eye protection is required during welding or remelt process.

Other protection: Wear gloves and suitable flame-retardant clothes during welding or heat processes, or where cuts from handling scrap is possible.

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9.0 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Color:	Silver to gray, becomes reddish brown with oxidation
Odor:	Odorless
Boiling Point @1atm:	Approx. 3000 deg. C
Vapor Pressure @20 deg. C	mmHg - N/A
Melting Point:	Approx. 1535 deg. C
Formula Weight:	55.847
Density @ 20 deg. C	7.86g/cm ³
Water Solubility:	Insoluble

10.0 STABILITY AND REACTIVITY

Stability: Carbon steel is stable under most conditions. It reacts with strong acids to generate hydrogen gas.


Polymerization: Hazardous polymerization cannot occur.

Condition to Avoid: Avoid generation dust, prolonged exposure to air and moisture, contact with chemical incompatibles, heat, and sources of ignition.

Hazardous Decomposition Products: Thermal oxidative decomposition of steel can produce ferric oxide fumes.

11.0 TOXICOLOGICAL INFORMATION

No relevant toxicological data found at time of research.

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12.0 ECOLOGICAL INFORMATION

Environmental fate: No data found.

Ecotoxicity: No data found.

13.0 DISPOSAL CONSIDERATIONS

Sell as scrap or landfill. Clean up spills as inert solid. Disposal of in accordance with OSHA, EPA, state, or local regulation.

14.0 TRANSPORT INFORMATION

DOT Transportation Data(49 CFR 172.101): Not specifically listed

15.0 REGULATORY INFORMATION

EPA Regulations

RCRA Hazardous Waste 40 CFR 261.33: No listed CERCLA Hazardous

Substance 40 CFR 302.4: No listed

SARA Toxic Chemical 40CFR 372.65: None **listed**


SARA EHS (Extremely Hazardous Substance) 40 CFR 355: None listed

16.0 OTHER INFORMATION

MERCK Safety data sheet

Oxford University Chemical and Other safety information

Genium Publishing Corporation Material Safety Data Sheet

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PART 2. PRIMER

1.0 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: CED primer Dray Film

Company Distributor: Keystone Automotive Industries

700 East Bonita Avenue

Pomona, CA 91767

Company Phone: 1-800-772-5557

Manufactured By: Asia Industries LTD.


EMERGENCY NUMBER: (03)4529529~3(TAIWAN)

INFORMATION NUMBER: (03)4529529~3(TAIWAN)

Product Use: Replacement Crash Part.

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	% BY WEIGHT
Pigment TLV(TWA): <1 0.15 mg(Pb)/m3 PEL(TWA): 0.05 mg(Pb)/m3	Proprietary	N/A
Lead and Lead chemical compound TLV(TWA): not est. PEL(TWA): not est.		N/A
Lead silicate basic TLV(TWA): not est. PEL(TWA): not est.	10099-76-0	N/A
Dibafyl Tinocxide TLV(TWA): not est. PEL(TWA): not est.	818-08-6	N/A
Carbon Black TLV(TWA): not est. PEL(TWA): not est.	1333-86-4	N/A
Aluminium silicate Hydrate TLV(TWA): not est. PEL(TWA): not est.	1332-58-7	N/A

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3.0 HAZARDS IDENTIFICATION

PHYSICAL AND CHEMICAL HAZARDS: Health Hazards; Particle accumulation.

EFFECTS OF OVEREXPOSURE:

INGESTION: May be harmful if swallowed.

INHALATION: May cause slight nose irritation.

SKIN EXPOSURE: May cause slight skin irritation.

EYE EXPOSURE: Causes eye irritation.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

No applicable information was found.

PRIMARY ROUTE(S) OF ENTRY:

SKIN – Yes, **INHALATION** – Yes, **INGESTION** –Yes

4.0 FIRST AID MEASURES

INGESTION: Don't induce vomiting. Refer to a physician immediately.

INHALATION: Remove to fresh air.

SKIN EXPOSURE: Remove promptly by wiping followed by washing with soap and water.

EYE EXPOSURE: Flush eyes thoroughly with plenty of water.

5.0 FIRE FIGHTING MEASURES

FLAMMABILITY CLASSIFICATION:


FLASH POINT: NONE

LEL: 1.0%

UN: Not Regulated

IMO: Not Regulated

EXTINGUISH MEDIA: Foam, CO2

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UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode or burst(due to the build-up of steam pressure when exposed to extreme heat.)

SPECIAL FIREFIGHTING PROCEDURES: Fog nozzles are preferable to use water. Wear self-contained breathing apparatus.

6.0 ACCIDENTAL RELEASE MEASURES

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

Provide maximum ventilation. To equip with proper respiratory and skin and eye protection is recommended in the area. Clean up spilled material with sawdust, vermiculite, or other absorbent material and place into containers for disposal.

7.0 HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: None

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION


RESPIRATORY PROTECTION: Overexposure to vapors may be prevented by ensuring ventilation controls, vapor exhaust or fresh air entry, If exposure may or does exceed occupational exposure limits. Use NIOSH –approved respirator to prevent over-exposure.

VENTILATION REQUIREMENTS: Keep the concentrations of ingredients listed in Section II below the TLV.

SKIN PROTECTION : Wear protective clothing (including gloves) to avoid direct contact with naked skin.

EYE PROTECTION: To wear chemical type splash goggles is recommended.

HYGIENIC PRACTICES: Clean or discard contaminated clothing and shoes.

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9.0 PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE:	240~300Deg.C
% VOLATILE VOLUME:	100%
SPECIFIC GRAVITY:	1.35
VAPOR DENSITY:	Heavier than air
EVAPORATION RATE:	Slower than ether
SOLUBILITY IN WATER:	Reducible
PH:	7.0~7.5
APPEARANCE	Milky White Liquid
ODOR:	Solvent Odor

10.0 STABILITY AND REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR


HAZARDOUS DECOMPOSITION PRODUCTS: May produce hazardous products including carbon monoxide and low molecular weight organic monomers when exposed to extreme heat.

CONDITIONS TO AVOID: Do not expose to heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong alkalis, strong mineral acids and strong oxidizing agents.

11.0 TOXICOLOGICAL INFORMATION

No data.

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12.0 ECOLOGICAL INFORMATION

No data.

13.0 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Waste material must be disposed of in accordance with national and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

14.0 TRANSPORT INFORMATION

Any transportation practice must be in compliance with local, state or federal laws and regulations. (Contact local or environmental agency for specific rules.)

15.0 REGULATORY INFORMATION

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

16.0 OTHER INFORMATION

REFERENCE: Date Base for Paint, Handbook for Solvent, Handbook for industrial Poisoning, Chemical Product.

REMARK: To the best of our knowledge, the information herein is given in good faith, but no warranty, expressed or implied, is made.