

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: Sheet Metal/Primer

PAGE 1 of 11

CONTROL DOCUMENT #: MS-00004

REV. DATE: 05/17/02

PART 1. SHEET METAL

1.0 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Sheet Metal Body Parts – Carbon Steel CAS Number:1309 37 1

Company Distributor: Keystone Automotive Industries

700 East Bonita Avenue

Pomona, CA 91767

Company	Phone:	1-800-772-5557
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Manufactured By: AUTO PARTS INDUSTRIAL CO., LTD

Emergency number: 886-3-4201919(Rep.)

Product Use: Replacement Crash Part.

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

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

	IDENTITY: SHEET METAL PARTS API			
	MATERIAL SAFETY DA	TA :	SHEET	
KEYSTONE	PRODUCT CODE: Sheet Metal/Primer		PAGE 2 of 11	
	CONTROL DOCUMENT #: MS-00004	REV	. DATE: 05/17/02	

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 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.



MATERIAL SAFETY DATA SHEET

PRODUCT CODE: Sheet Metal/Primer

PAGE 3 of 11

CONTROL DOCUMENT #: MS-00004 REV. DAT

REV. DATE: 05/17/02

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.

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 or 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-ventilates area away from flammable gases or liquids, oxidizing materials, or organic peroxides.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

Sanding of Parts: Dust particles may result from sanding the surface of the Parts.

Respiratory Protection: Mask over nose and mouth.

Hand Protection: None required but light gloves could be used.

Drilling into the Parts: Dust particles may result from drilling the surface of the Parts.

KEYSTONE

IDENTITY: SHEET METAL PARTS -- API

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: Sheet Metal/Primer

PAGE 4 of 11

CONTROL DOCUMENT #: MS-00004 REV. DATE: 05/17/02

Respiratory Protection: Mask over nose and mouth.

Hand Protection: None required but light gloves could be used.

Cutting the Parts: Dust particles may result from cutting the surface of the Parts.

Respiratory Protection: Mask over nose and mouth.

Hand Protection: None required but light gloves could be used.

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 CFR1910.134.

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.

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:	7.86q/cm ³
Water Solubility:	Insoluble

9.0 PHYSICAL AND CHEMICAL PROPERTIES



MATERIAL SAFETY DATA SHEET

PRODUCT CODE: Sheet Metal/Primer

PAGE 5 of 11

CONTROL DOCUMENT #: MS-00004

REV. DATE: 05/17/02

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.

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



MATERIAL SAFETY DATA SHEET

PRODUCT CODE: Sheet Metal/Primer CONTROL DOCUMENT #: MS-00004

PAGE 6 of 11

REV. DATE: 05/17/02

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

IDENTITY: SHEET METAL PARTS -- API MATERIAL SAFETY DATA SHEET PRODUCT CODE: Sheet Metal/Primer PAGE 7 of 11 CONTROL DOCUMENT #: MS-00004 REV. DATE: 05/17/02

PART 2. PRIMER

1.0 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name:	Dry Primer Paint
Chemical Family:	Ероху
Product ID:	PTU-1000 Black Ced Primer Dry Film
Company Distributo	r: Keystone Automotive Industries
	700 East Bonita Avenue
	Pomona, CA 91767
Company Phone:	1-800-772-5557
Supplied By:	Auto Parts Industrial Co., Ltd.
	EMERGENCY NUMBER: : 886-3-4201919(Rep.)
Product Use:	Replacement Crash Part.

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS	% BY
	NUMBER	WEIGHT
Lead and Lead chemical compound		1~2.
TLV(TWA): 0.15 mg(Pb)/m3 PEL(TWA): 0.05 mg(Pb)/m3		
Lead silicate basic	10099-76-0	1~5
TLV(TWA): not est. PEL(TWA): not est.		
Dibafyl Tinoxcde	818-08-6	1~5.
TLV(TWA): not est. PEL(TWA): not est.		
Carbon Black	1333-86-4	1~5.
TLV(TWA): not est. PEL(TWA): not est.		
Aluminium silicate Hydiate	1332-58-7	15~20
TLV(TWA): not est. PEL(TWA): not est.		



NOTE: (RD) = Respirable dust. (C) = ceiling limit. (Skin) = Skin penetrative. mppcf = Millions of particles per cubic foot. #, +, @ = Carcinogenic to criteria established by (#=NPT +=IARC @=OSHA).

3.0 HAZARDS IDENTIFICATION

PHYSICAL AND CHEMICAL HAZARDS: Health Hazards; Particle accumulation. **EFFECTS OF OVEREXPOSURE:**

INHALATION: Inhalation contents may be harmful. Respirable dust.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

No applicable information was found.

PRIMARY ROUTE(S) OF ENTRY:

SKIN - No, INHALATION - Yes, INGESTION - Yes

CARCINOGENICITY - NTP: No, IARC: No, OSHA: No

4.0 FIRST AID MEASURES

EYES: Flush with luke warm water for at least 15 minutes.SKIN: Flush with luke warm water. Remove contaminated clothing promptly.INHALATION: Remove to fresh air. Restore breathing if required.

5.0 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: This material is non-flammable. SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES: Firefighters should wear proper protective equipment (heat resisting clothes). FLASH POINT: NONE AUTO IGNITION TEMPERATURE: No information EXPLOSION LIMIT: No information



MATERIAL SAFETY DATA SHEET

PRODUCT CODE: Sheet Metal/Primer PAGE 9 of 11 CONTROL DOCUMENT #: MS-00004 **REV. DATE: 05/17/02**

6.0 ACCIDENTAL RELEASE MEASURES

Wear proper protective equipment (Gloves, Gas mask with an organic vapor canister, Apron, Safety goggles and etc.)

Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations.

7.0 HANDLING AND STORAGE

Precautions for handling or storing: None

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Measures

Sanding of Parts: Dust particles may result from sanding the surface of the Parts.

Respiratory Protection: Mask over nose and mouth

Hand Protection: None required but light gloves could be used

Drilling into the Parts: Dust particles may result from drilling the surface of the Parts.

Respiratory Protection: Mask over nose and mouth

Hand Protection: None required but light gloves could be used.

Cutting the Parts: Dust particles may result from cutting the surface of the Parts.

Respiratory Protection: Mask over nose and mouth

Hand Protection: None required but light gloves could be used

ENGINEERING MEASURES: Use in the well-ventilated areas.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use airline respirator at the closed place. Use proper protective equipment.

EYE PROTECTION: Wear protective eyeglasses when material is scuffed sawed or cut and generates dust.



HAND SKIN AND BODY PROTECTION: None required but light gloves could be used.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE:	500-600 deg.C
SPECIFIC GRAVITY:	1.35
VAPOR DENSITY:	Heavier than air
EVAPORATION RATE:	Slower than ether
SOLUBILITY IN WATER:	Reducible
PH:	7.0~7.5
APPEARANCE	Black
ODOR:	Solvent Odor

10.0 STABILITY AND REACTIVITY

This material is considered a stable material under normal and anticipated storage and handling conditions.

Decomposition product: Toxic fumes of carbon monoxide, carbon dioxide and nitrogen oxides.

Vapor organic solvents at baking process.

11.0 TOXICOLOGICAL INFORMATION

CONTROL PARAMETERS OF INGREDIENT: To the best of our knowledge, the other toxicological properties have not been thoroughly investigated.

PRODUCT: Product safety test is not carried out.

12.0 ECOLOGICAL INFORMATION

Handle with care because the disposal of product possibly effects on environment.



MATERIAL SAFETY DATA SHEET

PRODUCT CODE: Sheet Metal/Primer

PAGE 11 of 11

CONTROL DOCUMENT #: MS-00004

REV. DATE: 05/17/02

13.0 DISPOSAL CONSIDERATIONS

Any disposal practice must be in compliance with local, state or federal laws and regulations. (Contact local or environmental agency for specific rules.) Do not dump into sewers, on the ground or into any water.

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.