



Akzonobel Industrial Coatings Korea

# MATERIAL SAFETY DATA SHEET

## TX-F #23 PRIMER METALLIC

Date of issue: 2013-10-24

Revision date: 2015-06-05

Version: R0001.0004

### 1. IDENTIFICATION

#### A. Product name

- TX-F #23 PRIMER METALLIC [KF000036449]

#### B. Recommended use and restriction on use

- General use : paint applid on plastic resin
- Restriction on use : Do not use for other purposes

#### C. Manufacturer / Supplier / Distributor information

##### ○ Manufacturer information

- Company name : Akzonobel Industrial Coatings Korea Ltd.
- Address : 60, Bonsan 1-ro 56beon-gil, Jinyeong-eup, Gimhae-si, Gyeongsangnam-do, Korea
- Dept. :
- Telephone number :
- Emergency telephone number : (82) 55-720-0200
- Fax number :
- E-mail address :

##### ○ Supplier/Distributor information

- Company name : Akzonobel Industrial Coatings Korea Ltd.
- Address : 11, Byeolmang-ro 459beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Korea
- Dept. :
- Telephone number :
- Emergency telephone number : (82) 31-490-4200
- Fax number :
- E-mail address :

### 2. HAZARD IDENTIFICATION

#### A. GHS Classification

- Acute toxicity (inhalation: vapor) : Category4
- Carcinogenicity : Category1B
- Flammable liquids : Category3
- Specific target organ toxicity(Single exposure) : Category1
- Specific target organ toxicity(Single exposure) : Category3(Respiratory tract irritation)

#### B. GHS label elements

##### ○ Hazard symbols



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- **Signal words**

- Danger

- **Hazard statements**

- H226 Flammable liquid and vapour
- H332 Harmful if inhaled
- H335 May cause respiratory irritation.
- H350 May cause cancer
- H370 Causes damage to organs(Refer Section SDS 11)

- **Precautionary statements**

- 1) Prevention**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. ? No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools. Flammable liquids (chapter 2.6) 1, 2, 3
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.

- 2) Response**

- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P307+P311 If exposed: Call a POISON CENTER or doctor/physician.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 Specific treatment
- P370+P378 In case of fire: Use Suitable extinguishing media for extinction(Refer Section MSDS 5).

- 3) Storage**

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

- 4) Disposal**

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation

### C. Other hazards which do not result in classification : (NFPA Classification)

- **NFPA grade (0 ~ 4 level)**

- Health : 0, Flammability : 2, Reactivity : 0

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Trade names and Synonyms	CAS No.	Content(%)
n-Butyl acetate	Acetic acid, butyl ester	123-86-4	30 ~ 40
Acryl resin	-	-	20 ~ 30
Methyl Ethyl Ketone	2-Butanone	78-93-3	1 ~ 10
Isobutyl acetate	Acetic acid, 2-methylpropyl ester	110-19-0	1 ~ 10
others	-	-	1 ~ 10



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Aluminium	Allbri aluminum paste and powder	7429-90-5	1 ~ 10
Solvent naphtha (petroleum), light arom.	Naphtha	64742-95-6	1 ~ 10
4-Methyl-2-pentanone	Methylisobutyl ketone, MIBK	108-10-1	1 ~ 10
Acetic acid ethyl ester	Ethyl acetate	141-78-6	1 ~ 10
Cellulose acetate butylate	Cellulose, acetate butanoate	9004-36-8	1 ~ 10
Secret	Secret	-	1 ~ 10

#### 4. FIRST AID MEASURES

##### A. Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.
- Get medical attention immediately.

##### B. Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Laundering enough contaminated clothing before reuse.
- Get medical attention immediately.
- Remove contaminated clothing, shoes and isolate.
- Wear gloves when washing the patient, and please avoid contact with contaminated clothing.

##### C. Inhalation contact

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.
- Get medical attention immediately.
- If breathing is stopped or irregular, give artificial respiration and supply oxygen.

##### D. Ingestion contact

- About whether I should induce vomiting Take the advice of a doctor.
- Rinse your mouth with water immediately.
- Get medical attention immediately.

##### E. Delayed and immediate effects and also chronic effects from short and long term exposure

- Not available

##### F. Notes to physician

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.
- If exposed or concerned, get medical attention/advice.

#### 5. FIREFIGHTING MEASURES

##### A. Suitable (Unsuitable) extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
- Avoid use of water jet for extinguishing

##### B. Specific hazards arising from the chemical

- Not available

##### C. Special protective actions for firefighters

- Move containers from fire area, if you can do without the risk.
- Cool containers with water until well after fire is out.
- Keep unauthorized personnel out.
- Use appropriate extinguishing measure suitable for surrounding fire.



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- Wear appropriate protective equipment.
- Keep containers cool with water spray.
- Vapor or gas is burned at distant ignition sources can be spread quickly.
- The extremely low flash point made by fire-fighters may be less effective at digesting weeks.

## 6. ACCIDENTAL RELEASE MEASURES

### A. Personal precautions, protective equipment and emergency procedures

- Ventilate closed spaces before entering.
- Must work against the wind, let the upwind people to evacuate.
- Remove all sources of ignition.
- Do not direct water at spill or source of leak.
- Cleanup and disposal under expert supervision is advised.
- Keep unauthorized people away, isolate hazard area and deny entry.

### B. Environmental precautions

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

### C. Methods and materials for containment and cleaning up

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.
- Small leak: sand or other non-combustible material, please let use absorption.
- Wipe off the solvent.
- Dike for later disposal.
- Do not use plastic containers.
- Spilled material should be treated as a potential risk of waste collected.

## 7. HANDLING AND STORAGE

### A. Precautions for safe handling

- Wash thoroughly after handling.
- Comply with all applicable laws and regulations for handling
- Get the manual before use.
- Dealing only with a well-ventilated place.
- Do not inhale the steam prolonged or repeated.
- Avoid contact with heat, sparks, flame or other ignition sources.
- Contaminated work clothing should not be allowed out of the workplace.

### B. Conditions for safe storage, including any incompatibilities

- Do not apply direct heat.
- Keep in the original container.
- Please pay attention to incompatibilities materials and conditions to avoid.
- Keep sealed when not in use.
- Prevent static electricity and keep away from combustible materials or heat sources.
- By specifying a storage area for carcinogenic substances.
- Collected them in sealed containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### A. Exposure limits



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○ **ACGIH TLV**

- [n-Butyl acetate] : TWA, 150 ppm (713 mg/m<sup>3</sup>), STEL, 200 ppm (950 mg/m<sup>3</sup>)
- [Methyl Ethyl Ketone] : TWA, 200 ppm (590 mg/m<sup>3</sup>)
- [Secret] : TWA 2 mg/m<sup>3</sup>, Respirable particulate matter (containing no asbestos and <1% crystalline silica)
- [Isobutyl acetate] : TWA, 150 ppm (713 mg/m<sup>3</sup>)
- [Aluminium] : TWA, 1 mg/m<sup>3</sup>, Respirable Particulate Matter
- [4-Methyl-2-pentanone] : TWA, 20 ppm, STEL 75 ppm
- [Acetic acid ethyl ester] : TWA, 400 ppm (1440 mg/m<sup>3</sup>)
- [Secret] : TWA, 3 mg/m<sup>3</sup>, Inhalable particulate matter

## B. Engineering controls

- A system of local and/or general exhaust is recommended to keep employee exposures above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.

## C. Personal protective equipment

○ **Respiratory protection**

- Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Any chemical cartridge respirator with organic vapor cartridge(s).
- Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).
- Any air-purifying respirator with a full facepiece and an organic vapor canister.
- For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

○ **Eye protection**

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Provide an emergency eye wash station and quick drench shower in the immediate work area.

○ **Hand protection**

- Wear appropriate chemical resistant glove.

○ **Skin protection**

- Wear appropriate chemical resistant protective clothing.

○ **Others**

- Not available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance	
- Appearance	Liquid(Viscous liquid)
- Color	Gray
B. Odor	Not available
C. Odor threshold	Not available
D. pH	Not available
E. Melting point/Freezing point	Not available
F. Initial Boiling Point/Boiling Ranges	79 °C
G. Flash point	23 °C ~ 70 °C
H. Evaporation rate	Not available
I. Flammability(solid, gas)	Not available
J. Upper/Lower Flammability or explosive limits	Not available
K. Vapour pressure	Not available
L. Solubility	Not available
M. Vapour density	Not available
N. Specific gravity(Relative density)	0.975~1.035



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O. Partition coefficient of n-octanol/water	Not available
P. Autoignition temperature	420 °C
Q. Decomposition temperature	Not available
R. Viscosity	61.7~67.7KU
S. Molecular weight	Not available

## 10. STABILITY AND REACTIVITY

### A. Chemical Stability and Reactivity

- This material is stable under recommended storage and handling conditions.

### B. Possibility of hazardous reactions

- Cylinders exposed to fire may vent and release flammable gas.

### C. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces
- Avoid contact with heat, sparks, flame or other ignition sources.

### D. Incompatible materials

- Not available

### E. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

## 11. TOXICOLOGICAL INFORMATION

### A. Information on the likely routes of exposure

- (Respiratory tracts)
  - May cause respiratory irritation.
- (Oral)
  - Not available
- (Eye/Skin)
  - Not available

### B. Delayed and immediate effects and also chronic effects from short and long term exposure

- Acute toxicity
  - \* Oral
    - [n-Butyl acetate] : LD50 = 14130 mg/kg Rat
    - [Methyl Ethyl Ketone] : LD50 2737 mg/kg Rat
    - [Isobutyl acetate] : LD50 = 15400 mg/kg Rat
    - [Solvent naphtha (petroleum), light arom.] : LD50 = 8400 mg/kg Rat
    - [4-Methyl-2-pentanone] : LD50 = 2080 mg/kg Rat
    - [Acetic acid ethyl ester] : LD50 5620 mg/kg Rat
    - [Secret] : LD50 = 15400 mg/kg Rat
    - [Secret] : LD50 > 2000 mg/kg Rat
  - \* Dermal
    - [n-Butyl acetate] : LD50 = 17600 mg/kg Rabbit
    - [Methyl Ethyl Ketone] : LD50 6480 mg/kg rabbit
    - [Isobutyl acetate] : LD50 = 17400 mg/kg rabbit
    - [Solvent naphtha (petroleum), light arom.] : LD50 > 2000 mg/kg Rabbit
    - [4-Methyl-2-pentanone] : LD50 = 3000 mg/kg rabbit
    - [Acetic acid ethyl ester] : LD50 > 18000 mg/kg Rabbit
    - [Secret] : LD50 = 3000 mg/kg rabbit



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- [Secret] : LD50 > 2000 mg/kg Rat

**\* Inhalation**

- [n-Butyl acetate] : Steam LC50 = 0.74 mg/L/4hr Rat (GLP)
- [Methyl Ethyl Ketone] : Steam LC50 32 mg/ℓ 4 hr Mouse
- [Isobutyl acetate] : LC50 = 38.0 mg/L/4 hr Rat
- [Solvent naphtha (petroleum), light arom.] : LC50 > 5.2 mg/L 4 hr Rat, LC50=3400 ppm 4hr
- [4-Methyl-2-pentanone] : LC50 = 8.2 mg/ℓ Rat
- [Acetic acid ethyl ester] : Steam LC50 100 mg/ℓ 4 hr Rat (LC50 = 200 mg/L/1hr conversion  $\frac{1}{10}$ )

○ **Skin corrosion/irritation**

- Not available

○ **Serious eye damage/irritation**

- Not available

○ **Respiratory sensitization**

- Not available

○ **Skin sensitization**

- Not available

○ **Carcinogenicity**

**\* IARC**

- [Secret] : Group 2B
- [4-Methyl-2-pentanone] : Group 2B

**\* OSHA**

- Not available

**\* ACGIH**

- [Secret] : A4
- [Aluminium] : A4
- [4-Methyl-2-pentanone] : A3
- [Secret] : A3
- [Secret] : A4 (Tin organic compounds)

**\* NTP**

- Not available

**\* EU CLP**

- [Solvent naphtha (petroleum), light arom.] : Carc. 1B

○ **Germ cell mutagenicity**

- Not available

○ **Reproductive toxicity**

- Not available

○ **STOT-single exposure**

- Causes damage to organs(Refer Section SDS 11)
- May cause respiratory irritation.

○ **STOT-repeated exposure**

- Not available

○ **Aspiration hazard**

- Not available

## 12. ECOLOGICAL INFORMATION

### A. Ecotoxicity

○ **Fish**

- [n-Butyl acetate] : LC50 = 62 mg/ℓ 96 hr
- [Methyl Ethyl Ketone] : LC50 3220 mg/ℓ 96 hr Pimephales promelas
- [Secret] : LC50 > 100000 mg/ℓ 24 hr Brachydanio rerio
- [Isobutyl acetate] : LC50 = 17 mg/ℓ 96 hr
- [Solvent naphtha (petroleum), light arom.] : LC50 = 9.22 mg/ℓ 96 hr Oncorhynchus mykiss
- [4-Methyl-2-pentanone] : LC50 = 540 mg/ℓ 96 hr



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- [Acetic acid ethyl ester] : LC50 230 mg/ℓ 96 hr *Pimephales promelas*
- [Secret] : LC50 > 93.2 mg/ℓ 96 hr *Brachydanio rerio*

#### ○ Crustaceans

- [n-Butyl acetate] : LC50 = 32 mg/ℓ 48 hr
- [Methyl Ethyl Ketone] : EC50 5091 mg/ℓ 48 hr *Daphnia magna*
- [Secret] : LC50 = 94983.781 mg/ℓ 48 hr
- [Solvent naphtha (petroleum), light arom.] : EC50 = 6.14 mg/ℓ 48 hr *Daphnia magna*
- [4-Methyl-2-pentanone] : EC50 = 170 mg/ℓ 48 hr
- [Acetic acid ethyl ester] : EC50 717 mg/ℓ 48 hr *Daphnia magna*
- [Secret] : EC50 = 5600 mg/ℓ 24 hr
- [Secret] : EC50 0.017 ~ 0.018 mg/ℓ 48 hr *Daphnia magna*

#### ○ Algae

- [Methyl Ethyl Ketone] : EC50 > 500 mg/ℓ 96 hr *Skeletonema costatum*
- [Secret] : LC50 = 48545.539 mg/ℓ
- [Solvent naphtha (petroleum), light arom.] : EC50 = 19 mg/ℓ 72 hr *Selenastrum capricornutum*
- [Acetic acid ethyl ester] : EC50 1800 ~ 3200 mg/ℓ 72 hr (*Selenastrum* sp.)

### B. Persistence and degradability

#### ○ Persistence

- [n-Butyl acetate] : log Kow = 1.78
- [Methyl Ethyl Ketone] : log Kow 0.29
- [Secret] : log Kow = -1.50
- [Isobutyl acetate] : log Kow = 1.78
- [Solvent naphtha (petroleum), light arom.] : log Kow = 2.1 ~ 6 (Estimates)
- [4-Methyl-2-pentanone] : log Kow = 1.38
- [Acetic acid ethyl ester] : log Kow 0.73

#### ○ Degradability

- [Solvent naphtha (petroleum), light arom.] : BOD5/COD = 0.43
- [Acetic acid ethyl ester] : BOD5/COD 0.81

### C. Bioaccumulative potential

#### ○ Bioaccumulative potential

- [Acetic acid ethyl ester] : BCF 30
- [Secret] : BCF 100

#### ○ Biodegradation

- [n-Butyl acetate] : Biodegradability = 98 (%)
- [Methyl Ethyl Ketone] : 89 (%) 20 day
- [Acetic acid ethyl ester] : 100 (%) 28 day
- [Secret] : 19 (%) 28 day

### D. Mobility in soil

- Not available

### E. Other adverse effects

- Not available

## 13. DISPOSAL CONSIDERATIONS

### A. Disposal methods

- Since more than two kinds of designaed waste is mixed, it is difficult to treat seperatly, then can be reduction or stabilization by incineration or similar process.
- If water separation is possible, pre-process with Water separation process.
- Dispose by incineration.
- High temperature incinerate



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- After taking off organic solvents that are supposed to be recycled, incinerate the rest of them at a high degree.

#### B. Special precautions for disposal

- The user of this product must dispose by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

### 14. TRANSPORT INFORMATION

#### A. UN number

- 1263

#### B. Proper shipping name

- Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base

#### C. Hazard class

- 3

#### D. Packing group

- III

#### E. Marine pollutant

- Not applicable

#### F. Special precautions for user related to transport or transportation measures

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE : F-E (Non-water-reactive flammable liquids)
- EmS SPILLAGE SCHEDULE : S-E (Flammable liquids, floating on water)

### 15. REGULATORY INFORMATION

#### A. National and/or international regulatory information

- POPs Management Law
  - Not applicable
- Information of EU Classification
  - \* Classification
    - [n-Butyl acetate] : R10 R66 R67
    - [Methyl Ethyl Ketone] : F; R11 Xi; R36 R66 R67
    - [Isobutyl acetate] : F; R11 R66
    - [Aluminium] : F; R15-17
    - [Solvent naphtha (petroleum), light arom.] : Carc. Cat. 2; R45/Muta. Cat. 2; R46, Xn; R65
    - [4-Methyl-2-pentanone] : F; R11 Xn; R20 Xi; R36/37 R66
    - [Acetic acid ethyl ester] : F; R11 Xi; R36 R66 R67
  - \* Risk Phrases
    - [n-Butyl acetate] : R10, R66, R67
    - [Methyl Ethyl Ketone] : R11, R36, R66, R67
    - [Isobutyl acetate] : R11, R66
    - [Aluminium] : R15, R17
    - [Solvent naphtha (petroleum), light arom.] : R45, R65, R46
    - [4-Methyl-2-pentanone] : R11, R20, R36/37, R66
    - [Acetic acid ethyl ester] : R11, R36, R66, R67
  - \* Safety Phrase
    - [n-Butyl acetate] : S2, S25



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- [Methyl Ethyl Ketone] : S2, S9, S16
- [Isobutyl acetate] : S2, S16, S23, S25, S29, S33
- [Aluminium] : S2, S7/8, S43
- [Solvent naphtha (petroleum), light arom.] : S53, S45
- [4-Methyl-2-pentanone] : S2, S9, S16, S29
- [Acetic acid ethyl ester] : S2, S16, S26, S33
- **U.S. Federal regulations**
  - \* **OSHA PROCESS SAFETY (29CFR1910.119)**
    - Not applicable
  - \* **CERCLA Section 103 (40CFR302.4)**
    - [n-Butyl acetate] : 2267.995 kg 5000 lb
    - [Methyl Ethyl Ketone] : 2267.995 kg 5000 lb
    - [Isobutyl acetate] : 2267.995 kg 5000 lb
    - [4-Methyl-2-pentanone] : 2267.995 kg 5000 lb
    - [Acetic acid ethyl ester] : 2267.995 kg 5000 lb
  - \* **EPCRA Section 302 (40CFR355.30)**
    - Not applicable
  - \* **EPCRA Section 304 (40CFR355.40)**
    - Not applicable
  - \* **EPCRA Section 313 (40CFR372.65)**
    - [Aluminium] : Applicable
    - [4-Methyl-2-pentanone] : Applicable
- **Rotterdam Convention listed ingredients**
  - Not applicable
- **Stockholm Convention listed ingredients**
  - Not applicable
- **Montreal Protocol listed ingredients**
  - Not applicable

## 16. OTHER INFORMATION

### A. Reference

- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.
- This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

### B. Issue date

- 2013-10-24

### C. Revision number and Last date revised

- 3 times, 2015-06-05

### D. Other

- This MSDS is prepared according to the Globally Harmonized System (GHS).



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