

ASTRO-GALV GRAY PRIMER

Revised Date: 04-04-2017 Supersedes: AUG 1992

1. Identification

Product identifier

Astro-Galv Gray Primer

Other means of identification

SDS number 34 Synonyms X-6948

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Farwest Paint Manufacturing Co.

4522 South 133rd Street, Tukwila, Washington 98168 (Farwest) (206) 244-8844

General Assistance

E-Mail -Contact Person -

Emergency Telephone (Chemtrec) (800)424-9300 - 24 Hour Emergency Assistance

2. Hazard(s) Identification

Physical hazardsFlammable liquidsCategory 2Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2ASensitization, SkinCategory 1CarcinogenicityCategory 1AReproductive toxicityCategory 2Specific target organ toxicity, singleCategory 3

Specific target organ toxicity, single exposure; Narcotic effect

Specific target organ toxicity, repeated Category 2

exposure

Aspiration hazard Category 1

Label elements



Signal word Danger

Unknown Toxicity 55 % of the mixture consists of ingredient(s) of unknown

toxicity.

Hazard statement Highly Flammable liquid and vapor. Causes skin irritation.

Causes serious eye irritation. May cause an allergic skin

reaction. May cause cancer. Suspected of damaging fertility or



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the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. . May be fatal if swallowed and enters airways.

Precautionary statement Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the work place. Use only in outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray.

dust/fume/gas/mist/vapor

Response

IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. IF SKIN irritation occurs: Get medical advice/attention. In case of fire: Use foam CO₂, dry chemical or water fog for extinction. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and Keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

Storage Disposal Store locked up. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixture

Chemical name	CAS number	<u>%</u>
Toluene	108-88-3	9
Xylene	1330-20-7	4
Talc	14807-96-6	<2
Quartz, Crystalline Silica	14808-60-7	<1



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4. First-aid measures

Inhalation Remove to fresh air. If respiratory symptoms develop, seek

medical attention at once.

Skin contact Wash off quickly with plenty of water, then soap and water.

Remove and wash contaminated clothing before reuse.

Eye contact Flush immediately with large amounts of water, especially under

lids, for at least 15 minutes. Obtain emergency medical

treatment.

Ingestion If ingested do not induce vomiting, keep person warm and

quiet. Obtain medical treatment immediately. Aspiration of chemical into lungs may cause chemical pneumonitis which can

be fatal.

Most important symptoms/effects,

acute and delayed

Excessive exposure to vapors, spray mist may lead to headache, dizziness, and nausea. Some reports have associated prolonged occupational over exposure to solvents with permanent brain and nervous system damage. Can cause irritation sensitization, irritation, or defatting of the skin of upon prolonged contact. Amounts ingested incidental to consumer and industrial handling are not likely to cause injury. However, ingestion of

larger amounts could cause serious injury.

Indication of immediate medical attention and special treatment

needed

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other

than this product may have occurred.

General information

If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated

clothing before re-use.

5. Fire-fighting measures

Suitable extinguishing media Foam, CO₂, Dry Chemical, or Water Fog or CLASS B Extinguishing

Agent.

Unsuitable extinguishing media Water may be unsuitable but helpful in keeping adjacent

containers cool.

Specific hazards arising from the

chemical

Vapors may form an explosive mixture in air and may be ignited by sparks, pilot lights etc. Closed containers may rupture when

exposed to extreme heat.

Special protective equipment and

precautions for firefighters

Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus.



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Evacuate area of unprotected personnel. Wear protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up

Remove all sources of ignition.

Small spills: Ventilate area. Absorb spill with an absorbent material such as saw dust, vermiculite or sand and place

material into a closed container.

Large spills: Dike area to prevent this material from entering water systems or sewers. Wear protective equipment during cleanup.

7. Handling and storage

Precautions for safe handling

Use only with adequate ventilation. Avoid prolonged inhalation of vapors and spray mist. This material may cause sensitization. Do not get into eyes, on skin or clothing. Do not allow contaminated clothing to contact skin. Do not weld on full or empty container. Wear suitable protective equipment. Refer to section 8 for "Exposure controls / personal protection."

Conditions for safe storage, including any incompatibilities

KEEP OUT OF REACH OF CHILDREN. Keep away from heat or open flame. Keep from freezing. Store containers with lids tightly closed and appropriately labeled.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components

Type

Value

Toluene

PEL (TWA)

200 ppm

PEL (Ceiling)

300 ppm

500 ppm (Max ceiling)



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 $\begin{array}{cccc} Quartz & PEL (TWA) & 30 \text{ mg/m}^3 \\ Xylene & PEL (TWA) & 100 \text{ ppm} \\ Mica-Group Minerals & PEL (TWA) & 20 \text{ mppcf} \\ Talc & PEL (TWA) & 20 \text{ mppcf} \end{array}$

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

ComponentsTypeValueTitanium dioxide (TiO2)TWA $15 mg/m^3$ XyleneTWA100 ppm

US. OSHA Table Z-2 (29 CFR 1910.1000)

ComponentsTypeValueTolueneTWA200 ppmCeiling300 ppm,

500 ppm (Max Ceiling)

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components Type Value

Quartz TWA (10 mg/m3) / (% SiO2+2)

Mica-Group Minerals TWA 20 mppcf Talc TWA 20 mppcf

US. ACGIH Threshold Limit Values

Components Type Value

Quartz TLV(TWA) (10 mg/m3) / (% SiO2+2)

 Xylene
 TLV(TWA)
 100 ppm

 TLV(ST)
 150 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

 Components
 Type
 Value

 Toluene
 REL (TWA)
 100 ppm (375 mg/m³)

 REL (ST)
 150 ppm (560 mg/m³)

 Quartz
 REL (TWA)
 0.05 mg/m³

 Quartz
 REL (TWA)
 0.05 mg/m³

 Xylene
 REL (TWA)
 100 ppm

 Mica-Group Minerals
 REL (TWA)
 3 mg/m³ (resp)

 Talc
 REL (TWA)
 2 mg/m³

Appropriate engineering

controls mist. Avoid contact with skin and eyes. Local exhaust preferable.

General exhaust acceptable if the exposure to materials is

Use only with adequate ventilation. Avoid breathing vapor and spray

maintained below applicable exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear face shield or chemical goggles.

Skin protection

Hand protection Wear chemical resistant nitrile, neoprene or rubber gloves.

Other Wear protective clothing to prevent skin contact. Eye wash station



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and safety shower should be available.

Respiratory protection A canister-type respirator must be worn to prevent the inhalation of

vapors or spray mist when the TLV are PEL is exceeded.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Keep work area clean and free from spills and leaks. Always wash

hands thoroughly with soap and water before handling food, drink or

smoking.

9. Physical and chemical properties

Appearance

Physical state

Form

Color

Odor

Odor threshold

pH

Melting point/freezing point

Initial boiling point and boiling range

Flash point

Evaporation rate

Flammability (solid, liquid, gas)

Upper/lower flammability or explosive limits

Flammability limit – lower (%)

Flammability limit - upper (%)

Explosive limit - lower (%)

Explosive limit - upper (%)

Vapor pressure

Vapor density

Volatile by volume (%)

Volatile organic compounds (VOCs)

Density (Weight/Gallon)

Solubility(ies)

Solubility (water)

Partition coefficient (n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Gray liquid.

Liquid.

Liquid.

Gray in color.

Aromatic sweet odor.

Not available.

Not available.

Unknown.

198-387 °F

45 °F TCC

Slower than ether.

Flammable liquid.

Not available.

Not available.

0.7

7.0

15 mm Hg at 20 °C

Heavier than air.

50 %

389 Grams/Liter (Less Water)

12.86 lbs

Nil

Not available.

Not available.

Not available.

Not available.

10. Stability and reactivity

Reactivity

No specific test data related to reactivity available for this



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Chemical stability

Possibility of hazardous reactions

Conditions to avoid

Incompatible materials

Hazardous decomposition Products

product or its ingredients.

Stable under normal storage conditions.

Hazardous polymerization reaction will not occur.

Heat, sparks and open flame. If product contains aluminum, moisture in closed containers will generate hydrogen gas. Strong oxidants, acids, bases and epoxy hardeners under

uncontrolled conditions.

Incomplete combustion can yield carbon monoxide and toxic

vapors.

11. Toxicological information

Information on likely routes of exposure

Ingestion May be harmful if swallowed.

Inhalation May cause headache, dizziness, nausea, and loss of

consciousness.

Skin contact May cause irritation, sensitization, or defatting of skin upon

repeated contact.

Irritation of the eyes.

Eye contact
Symptoms related to the physical,

symptoms related to the physica

chemical and toxicological

characteristics

May cause irritation, sensitization, or defeating of skin upon prolonged or repeated contact. Vapors or spray mist can result in headache, dizziness, nausea and loss of consciousness. Some

reports associated with prolonged exposure results in permanent brain and nervous system damage.

Delayed and immediate effects and

also chronic effects from short- and

long-term exposure

Irritation, sensitization, or defeating of skin. Headache,

dizziness, nausea and loss of consciousness. Prolonged exposure results in permanent brain and nervous system damage.

Numerical measures of toxicity Components

Toluene (CAS 108-88-3)

Quartz (CAS 14808-60-7) Xylene (CAS 1330-20-7)

Natural Red Iron Oxide

 $\begin{array}{lll} \textbf{Test} & \textbf{Species} \\ \textbf{Oral } LD_{50} & \textbf{Rat} \\ \textbf{Dermal } LD_{50} & \textbf{Rabbit} \\ \textbf{Inhalation } LC_{50} & \textbf{Rat} \\ \end{array}$

 $Oral\ LD_{50}$ Rat $Oral\ LD_{50}$ Rat $Oral\ LD_{50}$ Rat $Oral\ LD_{50}$ Rabbit $Oral\ LD_{50}$ Rat $Oral\ LD_{50}$ Rat $Oral\ LD_{50}$ Rat $Oral\ LD_{50}$ Rat

Test Results
636 mg/kg
12200 mg/kg
49 mg/l, 4h
>2000 mg/kg
4300 mg/kg
>1700 mg/kg
21.7 mg/l, 4h

>10000 mg/kg

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitization

Respiratory sensitization

Skin sensitization

Causes skin irritation.
Causes serious eye irritation.

No data available.

May cause allergic skin reactions.



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Germ cell mutagenicity Not classified as mutagen.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (CAS 14808-60-7) 1 " Carcinogenic to Humans" Talc (CAS 14807-96-6) 1 " Carcinogenic to Humans"

NTP Report on Carcinogens

Quartz (CAS 14808-60-7) Known to be a Human Carcinogen.

Talc (CAS 14807-96-6) Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Quartz (CAS 14808-60-7) Not listed. Talc (CAS 14807-96-6) Not listed.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - May cause drowsiness or dizziness.

single exposure

Specific target organ toxicity - Causes damage to organs through prolonged or repeated

repeated exposure exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

12. Ecological information

Numerical measures of toxicity

ComponentsTestSpeciesTest ResultsToluene (CAS 108-88-3)Fish LC_{50} Rainbow trout
(Oncorhynchus
mykiss)5.5 mg/l, 96h

Crustacea EC₅₀ Water flea 11.5 mg/l, 48h

(Daphnia magna)
Algae EC₅₀ Green algae 12.5 mg/l, 72h

(Selenastrum capricornutum)

(Pimephales promelas)

Crustacea EC_{50} Water flea > 3.4 mg/l, 48h

(Ceriodaphnia dubia)

Algae EC₅₀ Microalga 4.9 mg/l, 72h

(Selenastrum capricornutum)

Talc (CAS 14807-96-6) Fish LC₅₀ Zebra fish >100000 mg/l, 96h

(Brachydanio rerio)



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Persistence and degradability Bioaccumulative potential

Partition coefficient n-octanol /

water (log Kow)

Mobility in soil
Other adverse effects

Not available.

Not available.

Not available.

Not available.

13. Disposal considerations

Disposal instructions Dispose of according to local, state and federal regulations.

Avoid discharge to natural waters. Ground handling equipment

to prevent sparks.

Hazardous waste code

US RCRA Hazardous Waste U List: Reference

Toluene (CAS 108-88-3)

U220

Xylene (CAS 1330-20-7)

U239

Waste from residues / unused

products

Dispose in accordance with local, state and federal agencies.

Ground handling equipment to prevent sparks.

Contaminated packaging

Do not reuse empty containers.

14. Transport information

DOT

UN number

UN 1263

UN proper shipping name

PAINT

Transport hazard class(es)

Class

3

Subsidiary risk

-

Label(s)

3 - Flammable liquid



Packing group

group

Environmental hazards

Marine pollutant

Vac

11

Special precautions for user

Read safety instructions, SDS and emergency procedures before

handling.



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IATA



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UN number UN 1263
UN proper shipping name Paint
Transport hazard class(es)

Class 3 Subsidiary risk -

Label(s) 3 - Flammable liquid



Packing group II
Environmental hazards Yes
ERG Code 3L

Special precautions for userRead safety instructions, SDS and emergency procedures before

handling.

IMDG

UN number UN 1263
UN proper shipping name PAINT
Transport hazard class(es)

Class 3 Subsidiary risk -

Label(s) 3 - Flammable liquid



Packing group ||

Environmental hazards

Marine pollutant Yes F-A, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

Transport in bulk according to Annex

II of MARPOL 73/78 and the IBC

Code

EMS

Not available.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.



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Some components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None of the ingredients in this product is listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

Mica-Group Minerals

Listed

(CAS 12001-26-2)

Talc (CAS 14807-96-6) Listed Quartz (CAS 14808-60-7) Listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Toluene (CAS 108-88-3) Listed Xylene (CAS 1330-20-7) Listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - Yes

SARA 302/304 Extremely hazardous substance

None of the ingredients in this product is listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Chemical Name	CAS number	% by wt.
Toluene	108-88-3	14.28
Xvlene	1330-20-7	7.65

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Toluene (CAS 108-88-3) Xylene (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None of the ingredients in this product is listed.

Safe Drinking Water Act (SDWA)

None of the ingredients in this product is listed.

US State regulations

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects.

US. New Jersey Worker and Community Right-to-Know Act

Toluene (CAS 108-88-3) Xylene (CAS 1330-20-7)



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Mica-Group Minerals (CAS 12001-26-2)

Diatomaceous earth (containing less than 1% quartz) (CAS 61790-53-2)

Talc (CAS 14807-96-6)

Quartz (CAS 14808-60-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

Mica-Group Minerals (CAS 12001-26-2)

Talc (CAS 14807-96-6)

Quartz (CAS 14808-60-7)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Toluene (CAS 108-88-3)

Talc (CAS 14807-96-6)

Quartz (CAS 14808-60-7)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)
Canada	Domestic Substances List (DSL)	Yes
Canada	Non- Domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Commercial	No
	Chemical Substances (EINECS)	
Europe	European List of Notified Chemical	No
	Substances (ELINCS)	
United States &	Toxic Substances Control ACT (TSCA)	No
Puerto Rico	Inventory	

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

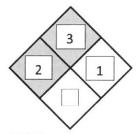
16. Other information, including date of preparation or last revision

 Issue date
 AUG-1992

 Revision date
 08-29-2015

 Version #
 01

NFPA Ratings



References ACGIH



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NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical

Agents

HSDB - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

National Toxicology Program (NTP) Report on Carcinogens

Disclaimer

The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations. All materials may present unknown hazards and should be used with caution.