

Safety Data Sheet According to Regulation (EC) No /2010

Sulfuric Acid

Version 1.0

Issue date: 23/10/2017 Revision date: 23/10/2017

SDS Record Number: CSSS-TCO-010-124789

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Battery Acid Pack (Sulfuric Acid)

Additional identification: Sulfuric Acid Identification of the product: Mixture

Index Number: No additional information available **REACH registration No.:** No additional information available

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Battery Electrolyte

1.2.2 Uses advised against:

No additional information available

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative):

Supplier(Manufacturer): Piaggio & C S.pA

Viale Rinaldo Piaggio, 25 - 56025 Pontedera - (PI) Italy Address:

Contact person(E-mail): centralino@piaggio.com Telephone: (ITALY) +39 0587 272111

1.4 Emergency telephone Number:

CHEMTREC(US, Canada) Phone: 1-800-424-9300 CHEMTREC (International) Phone: 1-703-527-3887

Available outside office hours? YES NO

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

| Acute Tox. 1 (Inhalation) | Acute toxicity (inhalation) Category 1 |
|---------------------------|-----------------------------------------|
| Skin Corr. 1A | Skin corrosion/irritation Category 1A |
| H314 | Causes severe skin burns and eye damage |
| H330 | Fatal if inhaled |
| R35 | Causes severe burns |
| С | Corrosive |



For full text of H- phrases: see section 2.2.

2.2 label elements:

Hazard Pictograms:





GHS05

Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

Danger

H314 - Causes severe skin burns and eye damage

H330 - Fatal if inhaled

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P264 - Wash ... thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P284 - Wear respiratory protection

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

2.3 Other hazards:

No additional information available

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|---------------|---------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------|
| Water | (CAS No) 7732-18-5 (EC no) 231-791-2 | 60~7 0 | Not classified |
| Sulfuric acid | (CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8 (REACH-no) not available | 30~4 0 | C; R35 |

| Name | Product identifier | Specific concentration limits |
|---------------|-----------------------------------------------------------------------|--------------------------------------------|
| Sulfuric acid | (CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8 | (5 =< C < 15) Xi;R36/38 (C >= 15) C;R35 |
| | (REACH-no) not available | |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------|---------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------|
| Water | (CAS No) 7732-18-5 (EC no) 231-791-2 | 60~7 0 | Not classified |
| Sulfuric acid | (CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8 (REACH-no) not available | 30~4 0 | Skin Corr. 1A, H314 |
| Name | Product identifier | Specific cor | ncentration limits |
| Sulfuric acid | (CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8 (REACH-no) not available | (5 =< C < 15) S | Eye Irrit. 2, H319 Skin Irrit. 2, H315 Corr. 1A, H314 |



Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Sulfuric Acid: Remove to fresh air immediately. If breathing is difficult, give oxygen. Lead Compounds: Remove from exposure, gargle, wash nose and lips, consult physician.

4.1.2 In case of skin contact:

Sulfuric Acid: Flush with large amounts of water for at least 15 minutes, remove any contaminated clothing. If irritation develops seek medical attention. Lead Compounds: Wash with soap and water.

4.1.3 In case of eyes contact:

Sulfuric Acid: Flush immediately with water for 15 minutes, consult a physician. Lead Compounds: Flush immediately with water for 15 minutes, consult a physician.

4.1.4 In case of ingestion:

Sulfuric Acid: Do not induce vomiting, consult a physician immediately. Lead Compounds: Consult a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed:

Causes severe skin burns and eye damage. May damage fertility. May damage the unborn child. May cause harm to breast-fed children.

Acute Health Hazards: Sulfuric Acid: Severe skin irritation, burns, damage to cornea may cause blindness, upper respiratory irritation. Lead Compounds: May cause abdominal pain, nausea, headaches, vomiting, loss of appetite, severe cramping, muscular aches and weakness, and difficulty sleeping. The toxic effects of lead are cumulative and slow to appear. It affects the kidneys, reproductive and central nervous systems. The symptoms of lead overexposure are listed above. Exposure to lead from a battery most often occurs during lead reclamation operations through the breathing or ingestion of lead dust or fumes.

Chronic Health Hazards: Sulfuric acid: Possible scarring of the cornea, inflammation of the nose, throat and bronchial tubes, possible erosion of tooth enamel. Lead Compounds: May cause anemia, damage to kidneys and nervous system, and damage to reproductive system in both males and females.

Medical Conditions Generally Aggravated by Exposure: Inorganic lead and its compounds can aggravate chronic forms of kidney, liver, and neurological diseases. Contact of battery electrolyte (acid) with the skin may aggravate skin diseases such as eczema and contact dermatitis. Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions.

4.3 Indication of any immediate medical attention and special treatment needed:

Aspiration of this material may cause chemical pneumonia.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Dry chemical, foam, CO₂.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the Sealed batteries can emit hydrogen only if over charged (float voltage> 2.41 VPC).

substance or mixture The gas enters the air through the vent caps. To ABS: Temperatures over 300℃ (572°F) may release combustible gases. To PP: Temperatures over 380°C (716°F)

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may release combustible gases.

5.3 Advice for firefighters: Wear positive pressure self-contained breathing apparatus. Wear fully protective

suit.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Use proper personal protective equipment as indicated in Section 8. Ensure

adequate ventilation. Avoid contact with eyes. Wear protective equipment. Keep

unprotected persons away.

Wear positive pressure self-contained breathing apparatus if dust is generated. 6.1.2 For emergency responders:

Evacuate unnecessary personnel

6.2 Environmental Precautions: Do not allow product to reach sewage system or any water course. Inform

respective authorities in case of seepage into water course or sewage system. Do

not allow to enter sewers/ surface or ground water.

6.3 Methods for Containment and Cleaning

up:

In case the release occurs, stop flow of material: contain/absorb small spills with dry sand, earth, and vermiculite. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of unneutralized acid to sewer. Spent Batteries - send to secondary lead smelter for recycling. Follow applicable federal, state and local regulations Neutralize as in preceding step. Collect neutralized material in sealed container and handle as hazardous waste as

applicable.

6.4 Reference to other sections: See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Avoid contact with eyes. Keep 7.1.1 Protective measures:

> ignition sources away - Do not smoke. Due to the battery's low internal resistance and high power density, high levels of short circuit current can be developed across the battery terminals. Do not rest tools or cables on the battery. Use insulated tools only. Follow all installation instructions and diagrams when installing or maintaining

battery systems.

7.1.2 Advice on general occupational

hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove

contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures Provide local exhaust or general room ventilation.

Storage conditions Store in a dry, cool and well-ventilated place. Keep away from heat and direct sunlight.

Incompatible products alkaline substances.

Special rules on packaging Store in original container or corrosive resistant and/or lined container.

7.3 Specific end use(s): No additional information available

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Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

| Sulfuric acid (7664-93- | -9) | |
|-------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU | IOELV TWA (mg/m³) | 0,05 mg/m³ (taking into account potential limitations and interferences which take place in the presence of other Sulphur compounds-mist) |
| Austria | MAK (mg/m³) | 0,1 mg/m³ (corresponds to 0.05 mg/m³ Thoracic-inhalable fraction) |
| Austria | MAK Short time value (mg/m³) | 0,2 mg/m³ (inhalable fraction) |
| Belgium | Limit value (mg/m³) | 0,2 mg/m³ |
| Bulgaria | OEL TWA (mg/m³) | 0,05 mg/m³ (When choosing a suitable method for monitoring exposure should take into account potential constraints and interactions that may occur in the presence of other sulfur compounds-respirable aerosol) |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m³) | 0,05 mg/m³ |
| Cyprus | OEL TWA (mg/m³) | 0,05 mg/m³ (vapor) |
| Czech Republic | Expoziční limity (PEL) (mg/m³) | 1 mg/m³ 0,05 mg/m³ (concentrated-mist) |
| Denmark | Grænseværdie (langvarig) (mg/m³) | 0,05 mg/m³ (thoracic fraction-mist) |
| Estonia | OEL TWA (mg/m³) | 1 mg/m³ (fume) |
| Finland | HTP-arvo (8h) (mg/m³) | 0,05 mg/m³ |
| Finland | HTP-arvo (15 min) | 0,1 mg/m³ |
| France | VME (mg/m³) | 0,05 mg/m³ (thoracic fraction) |
| France | VLE (mg/m³) | 3 mg/m³ |
| Germany | TRGS 900 Occupational exposure limit value (mg/m³) | 0,1 mg/m³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction) |
| Gibraltar | OEL TWA (mg/m³) | 0,05 mg/m³ (when selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds-thoracic fraction) |
| Greece | OEL TWA (mg/m³) | 0,05 mg/m³ (mist) |
| Hungary | AK-érték | 0,05 mg/m³ |
| Ireland | OEL (8 hours ref) (ppm) | 0,05 ppm |
| Ireland | OEL (15 min ref) (ppm) | 0,15 ppm (calculated) |
| Italy | OEL TWA (mg/m³) | 0,05 mg/m³ (When choosing a suitable method for monitoring exposure should take into account potential constraints and interactions that may occur in the presence of other sulfur compounds, respirable fraction-thoracic fraction, mist) |
| Latvia | OEL TWA (mg/m³) | 0,05 mg/m³ (choosing an appropriate exposure monitoring method, there should be taken into account the possible limitations and the impact that may result from the presence of other sulfur components-fog, which is defined as the thoracic fraction) |
| Lithuania | IPRV (mg/m³) | 0,05 mg/m³ (vapor) |
| Lithuania | TPRV (mg/m³) | 3 mg/m³ (fog-vapor) |
| Luxembourg | OEL TWA (mg/m³) | 0,05 mg/m³ |
| Malta | OEL TWA (mg/m³) | 0,05 mg/m³ (mist) |
| Netherlands | Grenswaarde TGG 8H (mg/m³) | 0,05 mg/m³ (defined as thoracic fraction-mist) |
| Poland | NDS (mg/m³) | 0,05 mg/m³ (thoracic fraction) |
| Portugal | OEL TWA (mg/m³) | 0,05 mg/m³ (thoracic fraction-mist) |

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| Romania | OEL TWA (mg/m³) | 0,05 mg/m³ |
|----------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Slovakia | NPHV (priemerná) (mg/m³) | 0,1 mg/m³ |
| Slovenia | OEL TWA (mg/m³) | 0,05 mg/m³ (inhalable fraction, fog) |
| Spain | VLA-ED (mg/m³) | 0,05 mg/m³ (indicative limit value; it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound; limitations and interferences can arise from other Sulfur compounds-mist) |
| Sweden | nivågränsvärde (NVG) (mg/m³) | 0,1 mg/m³ |
| Sweden | kortidsvärde (KTV) (mg/m³) | 0,2 mg/m³ |
| United Kingdom | WEL TWA (mg/m³) | 0,05 mg/m³ (mist) |
| Norway | Gjennomsnittsverdier (AN) (mg/m³) | 0,1 mg/m³ (inhalable fraction) |
| Norway | Gjennomsnittsverdier (Korttidsverdi) (mg/m3) | 0,3 mg/m³ (inhalable fraction) |
| Switzerland | VME (mg/m³) | 0,1 mg/m³ (inhalable) |
| Switzerland | VLE (mg/m³) | 0,1 mg/m³ (inhalable) |
| Australia | TWA (mg/m³) | 1 mg/m³ |
| Australia | STEL (mg/m³) | 3 mg/m³ |

8.1.2 Additional exposure limits under the

conditions of use:

Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1Appropriate engineering controls: Mechanical ventilation is recommended. Emergency eye wash fountains and safety

showers should be available in the immediate vicinity of any potential exposure.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Chemical goggles or face shield with safety glasses. DIN EN 166

Hand protection: Wear suitable gloves tested to EN374. Use neoprene gloves

Personal protective equipment:

Skin and body protection: Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of soap and

water.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. half-mask with

filter according to EN 149.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Do not allow product to reach sewage system or any water course. Inform

respective authorities in case of seepage into water course or sewage system. Do

not allow to enter sewers/ surface or ground water.









Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state Liquid
Appearance Clear. liquid.
Colour transparent.

Odour penetrating. Sharp. pungent.

Odour threshold No data available

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pH No data available

Relative evaporation rate (butyl acetate=1) < 1

Melting point No data available
Freezing point No data available

Boiling point 95 - 95,5 °C

Flash point Non-flammable

Auto-ignition temperature

No data available

Decomposition temperature

No data available

Flammability (solid, gas)

No data available

Vapour pressure 10 mm Hg

Relative vapour density at 20 °C > 1

Relative density

No data available

1,215 - 1,35 g/m³

Solubility

Soluble in water.
Water: 100 %

Log Pow No data available
Viscosity, kinematic No data available
Viscosity, dynamic No data available
Explosive properties No data available
Oxidising properties No data available
Explosive limits No data available

9.2. Other information:

Fat solubility(solvent- oil to be specified) Not available

etc:

Surface tension:Not availableDissociation constant in water(pKa):Not availableOxidation-reduction Potential:Not availableSpecific gravity:Not available

Section 10 Stability and reactivity

10.1 Reactivity: Stable under normal conditions.10.2 Chemical stability: Stable at normal conditions.

10.3 Possibility of hazardous reactions: Hazardous polymerization will not occur.

10.4 Conditions to avoid:Mechanical impact. Heat sources.

10.5 Incompatible materials: Alkali. metals. Combustible materials. Organic materials. Oxidising agents. amines.

Bases. Chlorates. iron. Nitrates. Perchlorates. Permanganates. Phosphorus. Steel.

zinc. Peroxides. cyanides. nitromethane. Benzene.

10.6 Hazardous decomposition products: Carbon oxides. Sulphur oxides. Toxic and irritating gases are released following

thermal decomposition or combustion.

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Section 11 Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:Inhalation: Inhalation: Fatal if inhaled.

| Sulfuric Acid- | |
|----------------------------|-----------------------|
| LD50 oral rat | 2140 mg/kg bodyweight |
| LC50 inhalation rat (mg/l) | 510 mg/m³ |
| ATE CLP (vapours) | 0,050 mg/l/4h |
| ATE CLP (dust,mist) | 0,005 mg/l/4h |

Skin corrosion/Irritation:Causes severe skin burns and eye damage.Serious eye damage/irritation:Serious eye damage, category 1, implicit

Respiratory or skin sensitization:

Germ cell mutagenicity:

Not classified

Carcinogenicity:

Not classified

Reproductive toxicity:

Not classified

STOT- single exposure:

Not classified

STOT-repeated exposure:

Not classified

Aspiration hazard:

Not classified

Section 12 Ecological information

12.1 Toxicity:

| Sulfuric acid (7664-93-9) | |
|---------------------------|--------------------------------------------------------------------|
| LC50 fish 1 | 82 mg/l (Exposure time:24 h - Species: Brachydanio rerio [static]) |

12.2 Persistence and degradability:

| Sulfuric Acid- | |
|-------------------------------|---------------------------------------------------------------------------------------|
| Persistence and degradability | Possibly hazardous short term degradation products are not likely. However, long term |
| | degradation products may arise. The products of degradation are more Toxic. |

12.3 Bioaccumulative potential:

| Sulfuric acid (7664-93-9) | |
|---------------------------|----------------------|
| BCF fish 1 | (no bioaccumulation) |

12.4 Mobility in soil:Not available.12.5 Results of PBT&vPvB assessment:Not applicable12.6 Other adverse effects:Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods:

Regional legislation (waste) Dispose of contents/container to comply with applicable local, national and international

regulations.

Waste treatment methods Recycling the product is recommended. Waste must be disposed of in accordance with

federal, state, and local environmental control regulations.

Waste disposal recommendations Consult the appropriate local waste disposal expert about waste disposal. Since emptied

containers retain product residue, follow label warnings even after container is emptied.

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Section 14 Transport informa

In accordance with ADR / RID / IMDG / IATA / ADN

| 14.1. UN number |
|-----------------|
|-----------------|

 UN-No. (ADR)
 2796

 UN-No. (IMDG)
 2796

 UN-No.(IATA)
 2796

 UN-No.(ADN)
 2796

 UN-No. (RID)
 2796

14.2. UN proper shipping name

Proper Shipping Name (ADR) SULPHURIC ACID / BATTERY FLUID, ACID

Proper Shipping Name (IMDG)

Proper Shipping Name (IATA)

Proper Shipping Name (ADN)

Proper Shipping Name (RID)

Not applicable

Not applicable

Transport document description (ADR)

UN 2796 SULPHURIC ACID / BATTERY FLUID, ACID, 8, II, (E)

Transport document description (ADR) (IMDG) UN 2796 SULPHURIC ACID, 8, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) 8
Danger labels (ADR) 8

IMDG

Transport hazard class(es) (IMDG) 8
Danger labels (IMDG) 8

IATA

Transport hazard class(es) (IATA) 8
Hazard labels (IATA) 8

ADN

Transport hazard class(es) (ADN)

Not applicable

RID

Transport hazard class(es) (RID) 8
Danger labels (RID) 8





14.4. Packing group

Ш Packing group (ADR) Packing group (IMDG) Ш Packing group (IATA) Ш

Packing group (ADN) Not applicable Packing group (RID) Not applicable

14.5. **Environmental hazards**

Dangerous for the environment No Marine pollutant No

Other information No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) C₁ Limited quantities (ADR) 11 Excepted quantities (ADR) F2

Packing instructions (ADR) P001, IBC02 Mixed packing provisions (ADR) MP15 Portable tank and bulk container instructions T8

(ADR)

Portable tank and bulk container special TP2

provisions (ADR)

L4BN Tank code (ADR) Vehicle for tank carriage ΑT 2 Transport category (ADR) Hazard identification number (Kemler No.) 80

Orange plates

80 2796

Tunnel restriction code (ADR) Ε 2R EAC code

14.6.2. Transport by sea

Limited quantities (IMDG) 1 L E2 Excepted quantities (IMDG) Packing instructions (IMDG) P001 IBC packing instructions (IMDG) IBC02 IBC special provisions (IMDG) B20 Tank instructions (IMDG) T8 TP2 Tank special provisions (IMDG) F-A EmS-No. (Fire) EmS-No. (Spillage) S-B Stowage category (IMDG) В

Properties and observations (IMDG) Colourless liquid, mixture not exceeding 1.405 relative density. Highly

MFAG-No 157

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| 14.6.3. Air transport |
|-----------------------|
|-----------------------|

| PCA Excepted quantities (IATA) | E2 |
|----------------------------------------------|------|
| PCA Limited quantities (IATA) | Y840 |
| PCA limited quantity max net quantity (IATA) | 0.5L |
| PCA packing instructions (IATA) | 851 |
| PCA max net quantity (IATA) | 1L |
| CAO packing instructions (IATA) | 855 |
| CAO max net quantity (IATA) | 30L |
| FRG code (IATA) | 81 |

14.6.4. Inland waterway transport

Not subject to ADN No

14.6.5. Rail transport

Carriage prohibited (RID) No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Section 15 Regulation information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. **EU-Regulations**

Contains no substances with Annex XVII restrictions

Sulfuric Acid- is not on the REACH Candidate List

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

National regulations 15.1.2.

Germany

Water hazard class (WGK)

3 - severe hazard to waters

15.2. Chemical safety assessment

CSA has not been established

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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