

MATERIAL SAFETY DATA SHEET

Page : 1 / 10

Revision : 25/5/2016

Revision nr : 7

Supersedes : 14/4/2015

PVC CLEANER PRO 10

Code : 12489

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Chemical description : PVC CLEANER PRO 10 .
Type of product : Pure product .
Reach registration number : 01-2119475103-46

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified use(s) : See table on the front page of the annex.
Use(s) advised against : This product is not recommended for any industrial, professional or consumer use other than identified in table on the front page of the annex.
Not for use in ornamental articles, in tricks and jokes and in games (in accordance with Annex XVII to Regulation (EC) No 1907/2006) (3. Liquid substances or mixtures, which are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F, (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10, (c) hazard class 4.1, (d) hazard class 5.1).
Not for use in aerosol dispensers for entertainment and decorative purposes (in accordance with Annex XVII to Regulation (EC) No 1907/2006) (40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not).

1.3. Details of the supplier of the safety data sheet

Company identification DUTHOO NV
Street : ESSERSTRAAT 3
Postal code/city : BE - 8550 ZWEVEGEM
Telephone : +32 (0)56 360 774
Telefax : +32 (0)56 360 776
E-mail (competent person) : info@duthoo.eu

1.4. Emergency telephone number

Emergency phone number : Belgium : Antipoison Center - Brussels
TEL: +32(0)70/245.245

The Netherlands : National Poisoning Information Center - Bilthoven
TEL: +31(0)30/274.88.88 (Only for the purpose of informing medical personnel in cases of acute intoxications)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids - Category 2 - Danger (Flam. Liq. 2; H225)
Eye irritation - Category 2 - Warning (Eye Irrit. 2; H319)
Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 - Warning (STOT SE 3; H336)

2.2. Label elements

Label in accordance with Regulation (EC) No 1272/2008

• Dangerous ingredient(s) : Ethyl acetate

MATERIAL SAFETY DATA SHEET

Page : 2 / 10

Revision : 25/5/2016

Revision nr : 7

Supersedes : 14/4/2015

PVC CLEANER PRO 10**Code : 12489**

SECTION 2. Hazards identification (continued)

- Hazard pictogram(s)



- Signal word : Danger
- Hazard statements : H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. EUH066 - Repeated exposure may cause skin dryness or cracking.
- Precautionary statements
 - Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/eye protection/face protection.
 - Response : P303+P361+P353 - IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

2.3. Other hazards

- Physical/chemical hazards : The product decomposes slowly on exposure to light or water.
- Hazards for the health : A health dangerous concentration in the air will very quickly be reached by evaporation of this substance at app. 20°C; even faster by spraying.
- Hazards for the environment : No significant danger. This product is no substance or contains no PBT or vPvB (in accordance with Annex XIII).
- Hazards for the safety : Vapour may form explosive mixture with air.

SECTION 3. Composition/information on ingredients

3.1. Substances

Name component(s)	Weight %	CAS nr	EINECS nr	Index nr	Reach nr	CLASSIFICATION
Ethyl acetate	: > 99.5 %	141-78-6	205-500-4	607-022-00-5	01-2119475103-46	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066

The full text of the (EU)H-statements is in section 16.

SECTION 4. First aid measures

4.1. Description of first aid measures

- General : In case of doubt or persistent symptoms, call a physician.
Never give anything by mouth to an unconscious person.
- First Aid Measures
 - Inhalation : Remove victim into fresh air.
Allow the affected person to rest in semi-sitting position.
If not breathing, give artificial respiration.
Get immediate medical advice/attention.
 - Skin Contact : Remove contaminated clothing.
Rinse skin immediately with plenty of water. (at least 20 ') (shower if necessary).
Consult doctor if irritation develops.
 - Eye Contact : Rinse immediately thoroughly and long (at least 15 min.) with plenty of water.
Remove contact lenses.
Consult eye doctor.

MATERIAL SAFETY DATA SHEET

Page : 3 / 10

Revision : 25/5/2016

Revision nr : 7

Supersedes : 14/4/2015

PVC CLEANER PRO 10

Code : 12489

SECTION 4. First aid measures (continued)

- Ingestion : DO NOT INDUCE VOMITING. Rinse mouth with water.
Give 2 glasses of water to drink.
Get immediate medical advice/attention.

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

See section 11.

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

For specialist advice doctors should contact the NVIC or the Belgian Poison center.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Extinguishing Media

- Suitable : Extinguishing powder , Alcohol resistant foam , Carbon dioxide (CO₂) , Water spray .
- Insuitable : Heavy water stream .

5.2. Special hazards arising from the substance or mixture

Special Exposure Hazards : Fire may liberate carbon oxides (CO) and smoke.

5.3. Advice for firefighters

- Special Protective Equipment for Firefighters : Use self-contained breathing apparatus and wear protective clothes when in close proximity to fire.
Special Procedures : Apply water spray or fog to cool nearby equipment. Avoid fire-fighting water to enter environment.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions : Eliminate every possible source of ignition (open fire, sparks, smoking, ...).
Evacuate all personnel immediately and ventilate area.
Avoid breathing vapour and contact with skin, eyes and clothing. Wear recommended personal protective equipment. (See section 8)

6.2. Environmental precautions

Environmental Precautions : Shut off leaks if without risks.
Dike in the spilled product as much as possible with inert material.
Prevent entry of product in public water, sewers or soil.
Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for Cleaning Up : Collect the spillage in closable, suitable disposal containers.
Clean up any spills as soon as possible, using an inert absorbent material.
Residue is to be washed down with plenty of water.

6.4. Reference to other sections

For personal protection, see section 8.
For the removal of the waste product, see section 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

MATERIAL SAFETY DATA SHEET

Page : 4 / 10

Revision : 25/5/2016

Revision nr : 7

Supersedes : 14/4/2015

PVC CLEANER PRO 10**Code : 12489**

SECTION 7. Handling and storage (continued)

Handling : AVOID FOG TRANSFORMATION !
Avoid breathing vapour and contact with skin, eyes and clothing. Wear recommended personal protective equipment. (See section 8)
When using, do not eat, drink or smoke.
Wash hands before and after working with the product.
Emergency eye wash fountains and showers should be available in the immediate vicinity of any potential exposure.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original, safely locked container in a dry, cool, dark, well ventilated and fireproof place.
All dangerous products should be placed on a drip tray or should be barreled.
Keep away from : Oxidizing agents , Strong acids , Strong bases .

Protection against Fire and Explosion : Remove all sources of ignition (open fire, sparks, smoking, ...).
Vapour is heavier than air and spreads along the ground with risk of ignition on distance.
Do not use compressed air to either agitate or transfer contents of storage containers (tanks) / shipping drums containing this material.
Take measures against electrostatic discharges.
Use explosionproof equipment.
Use spark-arm implement.
Sufficiently earthen.

Packaging Material : Stainless steel , Polypropylene , Glass .

Insuitable Packaging Material : Several synthetics , Aluminium .

7.3. Specific end use(s)

For identified uses, see subsection 1.2 and/or exposure scenarios.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits : Ethyl acetate : Limit value (BE) : 400 ppm (1461 mg/m³) (2014)

Biological limit values : They will be included when available.

* DNELs : • Ethyl acetate : Worker, acute - local effects, inhalation : 1468 mg/m³
• Ethyl acetate : Worker, acute - systemic effects, inhalation : 1468 mg/m³
• Ethyl acetate : Worker, long-term - local effects, inhalation : 734 mg/m³
• Ethyl acetate : Worker, long-term - systemic effects, inhalation : 734 mg/m³
• Ethyl acetate : Worker, long-term - systemic effects, dermal : 63 mg/kg bw/day
• Ethyl acetate : Consumer, acute - local effects, inhalation : 734 mg/m³
• Ethyl acetate : Consumer, acute - systemic effects, inhalation : 734 mg/m³
• Ethyl acetate : Consumer, long-term - local effects, inhalation : 367 mg/m³
• Ethyl acetate : Consumer, long-term - systemic effects, inhalation : 367 mg/m³
• Ethyl acetate : Consumer, long-term - systemic effects, dermal : 37 mg/kg bw/day
• Ethyl acetate : Consumer, long-term - systemic effects, oral : 4,5 mg/kg bw/day

PNECs : • Ethyl acetate : Fresh water : 0,24 mg/l
• Ethyl acetate : Marine water : 0,024 mg/l
• Ethyl acetate : Fresh water sediment : 1,15 mg/kg
• Ethyl acetate : Marine water sediment : 0,115 mg/kg
• Ethyl acetate : Soil : 0,148 mg/kg
• Ethyl acetate : Intermittent release : 1,65 mg/l
• Ethyl acetate : Sewage treatment plant : 650 mg/l

8.2. Exposure controls

Engineering Measures : Ventilation , (Through the floor), Local exhaust .

Personal Protection Equipment

MATERIAL SAFETY DATA SHEET

Page : 5 / 10

Revision : 25/5/2016

Revision nr : 7

Supersedes : 14/4/2015

PVC CLEANER PRO 10**Code : 12489**

SECTION 8. Exposure controls/personal protection (continued)

- Respiratory protection : CE-approved mask for organic vapours and solvents (type A, brown).
- Skin protection : Suitable protective clothing .
- Hand protection : Suitable material for safety gloves (EN 374):
The suitability of the gloves and the breakthrough time for a specific workplace should be discussed with the producers of the protective gloves.
 - material : Butyl rubber
 - thickness : 0,7 mm
 - breakthrough time : 120'
- Eye/Face protection : Closed safety glasses or face shield.
- Environmental exposure controls : See sections 6, 7, 12 and 13.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical State (20°C) : Liquid .
- Form/Colour : Clear , Colourless .
- Odour : Fruity odour .
- Odour threshold : 6 - 75 ppm
- pH value : Not applicable.
- Melting/Freezing point : -84 °C
- Boiling Point/Range (1013 hPa) : 77 °C
- Flash point : -4 °C
- Evaporation rate : 4,5 - 6 (Butyl acetate = 1)
0,4 - 2,4 (Ether =1)
- Explosion limits in air : 2 - 12 vol. %
- Vapour pressure (20°C) : 9,83 kPa
- Vapour pressure (50°C) : 37,9 kPa
- Relative vapour density (air=1) : 3,0
- Relative density of saturated vapour/air mixture (air=1) : 1,2
- Density (20°C) : 0,900 kg/l
- Solubility in water (20°C) : 8 g/100 ml
- Soluble in : Acetone , Benzene , Chloroform .
- Miscible with : Alcohol , Ether .
- Log P Octanol/Water (20°C) : 0,68 (experimental)
- Auto-ignition temperature : 427 °C
- Minimum ignition energy : 0,46mJ
- Decomposition temperature : No data available.
- Viscosity (20°C) : 0,44 mPa.s (Dynamic)
- Explosive properties : No chemical groups associated with explosive properties .
- Oxidizing properties : No chemical groups associated with oxidizing properties .

9.2. Other information

- Surface tension (20°C) : 24 mN/m
- Specific leading : 4,6*10E4 pS/m
- % Volatiles (by weight) : > 99,5

MATERIAL SAFETY DATA SHEET

Page : 6 / 10

Revision : 25/5/2016

Revision nr : 7

Supersedes : 14/4/2015

PVC CLEANER PRO 10

Code : 12489

SECTION 10. Stability and reactivity

10.1. Reactivity

Reactivity : Reacts violently with oxidizing agents, strong acids and strong lyes.

10.2. Chemical stability

Stability : Stable at normal circumstances
Unstable upon contact with moisture , Light , Air .

10.3. Possibility of hazardous reactions

Hazardous reactions : The product decomposes slowly on exposure to light or water.
Attacks many metals with liberation hydrogen gas, which is flammable and forms explosive mixture with air.

10.4. Conditions to avoid

Conditions to avoid : High temperatures .

10.5. Incompatible materials

Materials to avoid : Oxidizing agents , Strong acids , Strong bases , Aluminium .

10.6. Hazardous decomposition products

Hazardous Decomposition Products : Acetic acid , Ethanol , Carbon oxides .

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

- * - Inhalation : High concentrations may produce central nervous system depression and loss of consciousness (diminuation of consciousness).
Symptoms include: Sore throat , Cough , Confusion , Dizziness , Sleepiness , Unconsciousness .
 - Ethyl acetate : LC0 (Rat, inhalation, 6 h) : 22,5 mg/l
- Skin contact : Symptoms include: Redness , Pain , Dry skin .
 - Ethyl acetate : LD50 (Rabbit, dermal) : >20000 mg/kg
- Ingestion : After swallowing, some drops of liquid can enter the lungs (aspiration), which may cause pneumonia.
Symptoms include: Nausea , See "Inhalation" .
 - Ethyl acetate : LD50 (Rabbit, oral) : 4934 mg/kg (OECD Guideline 401)
- Skin corrosion/irritation : Skin contact can damage eczema.
- Serious eye damage/irritation : Causes serious eye irritation.
Rabbit : Not irritant (OECD Guideline 405) (The classification according to Annex VI of the Regulation (EC) No 1272/2008 is under discussion as it does not correspond to the conclusion from the test.)
- Aspiration hazard : Long contact may cause lung disorders.
- Respiratory or skin sensitisation : Not sensitive .
- Carcinogenicity : Not listed as carcinogenic .
- Mutagenicity : Not listed as mutagenic .
- Reproductive toxicity : Not listed for reproductive toxicity .
- Specific target organ toxicity - single exposure : To human : Vapours may cause drowsiness and dizziness.
- Specific target organ toxicity - repeated exposure : To human : Repeated exposure may cause skin dryness or cracking.

MATERIAL SAFETY DATA SHEET

Page : 7 / 10

Revision : 25/5/2016

Revision nr : 7

Supersedes : 14/4/2015

PVC CLEANER PRO 10**Code : 12489****SECTION 12. Ecological information****12.1. Toxicity**

- * Ecotoxicity : • Ethyl acetate : LC50 (Fish, 96 h) : 230 mg/l (Pimephales Promelas) (OECD Guideline 203)
• Ethyl acetate : EC50 (Daphnia magna, 24 h) : 3090 mg/l
• Ethyl acetate : NOEC (Algae, 72 h) : >100 mg/l (Desmodesmus subspicatus) (OECD Guideline 201)
• Ethyl acetate : NOEC (Daphnia magna, 21 d) : 2,4 mg/l (OECD Guideline 201)

12.2. Persistence and degradability

- Persistence and degradability : • Ethyl acetate : Persistence and degradability : Readily biodegradable .

12.3. Bioaccumulative potential

- Bioaccumulation : • Ethyl acetate : Bioaccumulation : Bioaccumulation not expected .

12.4. Mobility in soil

- Mobility : • Ethyl acetate : Mobility : Low adsorption potential in soil.

12.5. Results of PBT and vPvB assessment

- Evaluation : • Ethyl acetate : PBT/vPvB : No

12.6. Other adverse effects

- Photochemical ozone creation potential : No data available.
Ozone depletion potential : None
Endocrine disrupting potential : No data available.
Global warming potential : No data available.

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

- Waste from residues/Unused products : The product has to be destroyed according to national or local legislation, by a company specialised in handling hazardous waste products.
- European list of waste products : XXXXXX - European waste product code. This code is assigned on the basis of the most current applications and can not be representative for pollutions which are arisen at the effective use of the product. The producer of the waste has to evaluate its process himself and has to grant the appropriate waste coding. See Decision 2001/118/EC.
- Removal contaminated packaging : Packing is to be used exclusively for the packing of this product. After use, empty and close the packing very carefully. In case of returned packing, the empty packing can be offered back to the supplier.

SECTION 14. Transport information**14.1. UN number**

- UN Number : 1173

14.2. UN proper shipping name

- ADR/RID Name : UN 1173 Ethyl acetate, 3, II, (D/E)
ADN Name : UN 1173 Ethyl acetate , 3, II
IMDG Name : UN 1173 Ethyl acetate , 3, II, (-4°C)
IATA Name : UN 1173 Ethyl acetate, 3, II

14.3. Transport hazard classe(s)

- Class : 3

**MATERIAL SAFETY DATA
SHEET**

Page : 8 / 10

Revision : 25/5/2016

Revision nr : 7

Supersedes : 14/4/2015

PVC CLEANER PRO 10**Code : 12489****SECTION 14. Transport information (continued)****14.4. Packing group**

Packaging Group : II

14.5. Environmental hazards

Environmentally hazard : No

Marine pollutant : No

14.6. Special precautions for user

Danger number : 33

Hazard Label(s) : 3

EmS-N° : F-E , S-D

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

Type ship : 3

Pollution category : Z

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Inventories : Australian inventory (AICS): Listed in inventory.
Canadian inventory (DSL): Listed in inventory.
Chinese inventory (IECS): Listed in inventory.
European inventory (EINECS): Listed in inventory.
Japanese inventory (ENCS): Listed in inventory.
Korean inventory (KECI): Listed in inventory.
Philippine inventory (PICCS): Listed in inventory.
Inventory of the United States (TSCA): Listed in inventory.

NFPA n° : 1-3-0

Relevant EU Rule(s) : Directive 96/82/EC of the Council of 9 December 1996 on the control of major-accident hazards involving dangerous substances
Directive 98/24/EC of the Council of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
Directive 1999/13/EC of the Council of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations
Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC
Decision 2001/118/EC of the Commission of 16 January 2001 amending Decision 2000/532/EC as regards the list of wastes
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (Reach)
Commission Implementing Regulation (EU) No 872/2012 of 1 October 2012 adopting the list of flavouring substances provided for by Regulation (EC) No 2232/96 of the European Parliament and of the Council

* The restrictions in Annex XVII to Regulation (EC) No 1907/2006 must be observed.

National regulations

MATERIAL SAFETY DATA SHEET

Page : 9 / 10

Revision : 25/5/2016

Revision nr : 7

Supersedes : 14/4/2015

PVC CLEANER PRO 10**Code : 12489**

SECTION 15. Regulatory information (continued)

- Germany : WGK : 1
- Netherlands : Water damaging : 11
Decontamination exertion : B

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out for the material.

SECTION 16. Other information

This safety data sheet has been drawn up in accordance with Regulation (EC) No 1907/2006.
This safety data sheet is exclusively made for industrial/professional use.

* Has changed compared to previous revision.

- * Changes : Section 8 , Section 11 , Section 12 , Section 15 , Section 16 .
- Sources of used key data : The information contained herein is based on the present state of our knowledge
See also on the webaddress:
<http://apps.echa.europa.eu/registered/registered-sub.aspx#search> (Producer(s)
- (EU)H-statement(s) : H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
EUH066 - Repeated exposure may cause skin dryness or cracking.
- * Classification procedure : Flam. Liq. 2; H225 - Based on test data
Eye Irrit. 2; H319 - Additivity method
STOT SE 3; H336 - Additivity method
- * List of abbreviations and acronyms : ADN (Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation interieur) : European agreement concerning the international carriage of dangerous goods by inland waterways
ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route) : European agreement concerning the international carriage of dangerous goods by road
CO : Carbon monoxide
DNEL (Derived No Effect Level) : an estimated safe exposure level
EC50 : median Effective Concentration
EmS (Emergency Schedule) : the first code refers to the relevant fire schedule and the second code refers to the relevant spillage schedule
Eye Irrit. 2 : Eye irritation - Category 2
Flam. Liq. 2 : Flammable liquids - Category 2
IATA (International Air Transport Association) : provisions concerning the international carriage of dangerous goods by air
IMDG (International Maritime Dangerous Goods code)
LC0 : Lethal Concentration to 0% of test organisms
LD50 : median Lethal Dose
NFPA (National Fire Protection Association) or fire diamant
NOEC (No Observed Effect Concentration)
NVIC : National Poisoning Information Center
OECD : Organisation for Economic Cooperation and Development
PBT : persistent, bioaccumulative and toxic
PNEC (Predicted No Effect Concentration) : concentration below which exposure to a substance is not expected to cause adverse effects
REACH : Registration, Evaluation, Authorisation and restriction of Chemicals
RID (Règlement concernant le transport International ferroviaire des marchandises Dangereuses) : Regulation concerning the International carriage of Dangerous goods by rail
STOT RE : Specific Target Organ Toxicity - Repeated exposure
STOT SE 3 : Specific Target Organ Toxicity - Single exposure - Category 3
WGK (Wassergefährdungsklasse) : a German classification of substances that

MATERIAL SAFETY DATA SHEET	Page : 10 / 10
	Revision : 25/5/2016
	Revision nr : 7
	Supersedes : 14/4/2015
PVC CLEANER PRO 10	Code : 12489

SECTION 16. Other information (continued)

indicate the environmental hazard for surface water
vPvB : very persistent and very bioaccumulative

This information is to our knowledge correct and complete on the date of issue of this safety data sheet. The information only concerns the product and does not give any guarantee for the quality and the completeness of the properties of the product, or in case of mixing or using in any other process. It remains the responsibility of the user to assure himself that the information is suitable and complete concerning the special use he makes of the product.

BRENNTAG denies all responsibility for loss or damage resulting from the use of these data.

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