

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Underbody Protection Bitumen Spray

Product no.

5-400-0500

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

Bodywork protector treatment. Only for professional use.

Uses advised against

-

The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

August Handel GmbH
Heinrich-Hertz-Str. 3b
DE-14532 Kleinmachnow b. Berlin
Germany
Phone: +49 30 217333 00

Contact person**E-mail**

info@augusthandel.com

SDS date

2017-06-02

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Gas 1; H220
Flam. Liq. 2; H225
Flam. Liq. 3; H226
Comp. Gas; H280
Asp. Tox. 1; H304
Skin Irrit. 2; H315
Eye Irrit. 2; H319
STOT SE 3; H336
Carc. 1B; H350
Aquatic Chronic 2; H411
See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

- Extremely flammable gas. (H220)
- Highly flammable liquid and vapour. (H225)
- Flammable liquid and vapour. (H226)
- Contains gas under pressure; may explode if heated. (H280)
- May be fatal if swallowed and enters airways. (H304)
- Causes skin irritation. (H315)
- Causes serious eye irritation. (H319)
- May cause drowsiness or dizziness. (H336)
- May cause cancer. (H350)
- Toxic to aquatic life with long lasting effects. (H411)

Safety statement(s)

- General** -
- Prevention** Obtain special instructions before use. (P201).
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking. (P210).
- Response** Leaking gas fire: Do not extinguish, unless leak can be stopped safely. (P377).
IF exposed or concerned: Get medical advice/attention. (P308+P313).
In case of leakage, eliminate all ignition sources. (P381).
- Storage** Store in a well-ventilated place. (P403).
- Disposal** Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

Naphtha (petroleum), hydrotreated light, Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, acetone, Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified [A complex combi

2.3. Other hazards

This product contains teratogenic substances, which may cause long-term adverse effects to the unborn foetus.

This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.

This product contains substances that may cause adverse effects to the reproductive system.

This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

Additional labelling

Do not use in paint spraying equipment.

Additional warnings

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VOC

-

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	propane
IDENTIFICATION NOS.:	CAS-no: 74-98-6 EC-no: 200-827-9 Index-no: 601-003-00-5
CONTENT:	12,5-20%%
CLP CLASSIFICATION:	Comp. Gas, Flam. Gas 1 H220, H280

NAME:	Naphtha (petroleum), hydrotreated light
IDENTIFICATION NOS.:	CAS-no: 64742-49-0 EC-no: 265-151-9 Index-no: 649-328-00-1
CONTENT:	12,5-20%%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2 H225, H304, H315, H336, H411
NAME:	acetone
IDENTIFICATION NOS.:	CAS-no: 67-64-1 EC-no: 200-662-2 Index-no: 606-001-00-8
CONTENT:	10-12,5%%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Eye Irrit. 2 H225, H319, H336
NOTE:	SL
NAME:	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
IDENTIFICATION NOS.:	CAS-no: 64742-49-0 EC-no: 265-151-9 Index-no: 649-328-00-1
CONTENT:	10-12,5%%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2 H225, H304, H315, H336, H411
NAME:	butane
IDENTIFICATION NOS.:	CAS-no: 106-97-8 EC-no: 203-448-7 Index-no: 601-004-00-0
CONTENT:	5-10%%
CLP CLASSIFICATION:	Comp. Gas, Flam. Gas 1 H220, H280
NAME:	Isobutane
IDENTIFICATION NOS.:	CAS-no: 75-28-5 EC-no: 200-857-2 Index-no: 601-004-00-0
CONTENT:	5-10%%
CLP CLASSIFICATION:	Comp. Gas, Flam. Gas 1 H220, H280
NAME:	Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified A complex combi
IDENTIFICATION NOS.:	CAS-no: 64742-95-6 EC-no: 265-199-0 Index-no: 649-356-00-4
CONTENT:	1-2,5%%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3, Skin Irrit. 2, Asp. Tox. 1, Carc. 1B, Repr. 2, Aquatic Chronic 2 H226, H304, H315, H336, H350, H361, H411

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.
S = Organic solvent L = European occupational exposure limit.

Other information

Eye Cat. 2 Sum = $\sum(Ci/S(G)CLi) = 1 - 1,5$
 Skin Cat. 2 Sum = $\sum(Ci/S(G)CLi) = 2,8 - 4,2$
 N chronic (CAT 2) Sum = $\sum(Ci/(M(\text{chronic})^{*25})^{*0.1}^{*10^{CATi}}) = 1,12 - 1,68$

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Bring the person into fresh air and stay with him.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

Ingestion

Do not induce vomiting! If vomiting occurs, keep head facing down to prevent vomit entering the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should be kept under medical attention for a minimum of 48 hours.

Burns

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

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

This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

No specific requirements.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from spilled material. Avoid direct contact with spilled substances. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. The room and chemical closet shall be provided with warning sign for toxic substances. Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Storage temperature

Room temperature 18 to 23°C

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

butane

Long-term exposure limit (8-hour TWA reference period): 600 ppm | 1450 mg/m³

Short-term exposure limit (15-minute reference period): 750 ppm | 1810 mg/m³

Comments: Carc (>0,1%butadien) (Carc = Capable of causing cancer.)

acetone

Long-term exposure limit (8-hour TWA reference period): 500 ppm | 1210 mg/m³

Short-term exposure limit (15-minute reference period): 1500 ppm | 3620 mg/m³

DNEL / PNEC

DNEL (acetone): 3620 mg/m³

Duration of Exposure: Short term

DNEL (acetone): 1210 mg/m³

Duration of Exposure: Long term

DNEL (Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified [A complex combi): 25 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified [A complex combi): 150 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (butane): 1810 mg/m³

Duration of Exposure: Short term

Remarks: 750 ppm

DNEL (butane): 1450 mg/m³

Duration of Exposure: Long term

Remarks: 600 ppm

8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Exhaust air that contains the substances shall not be recirculated. Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and - showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep containment materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

**Generally**

Use only CE marked protective equipment.

Respiratory Equipment

Recommended: Combination filter A2P3. Class 2/3. Brown/White

Skin protection

Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

Hand protection

Recommended: Natural rubber (latex)

Eye protection

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	Aerosol
Colour	Black
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm ³)	0,764

Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure (25°C)	3500 hPa
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

Data on fire and explosion hazards

Flash point (°C)	0
Ignition (°C)	200
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	0,6 - 13 v/v%
Explosive properties	No data available.

Solubility

Solubility in water	Insoluble
n-octanol/water coefficient	No data available.

9.2. Other information

Solubility in fat (g/L)	No data available.
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SECTION 10: Stability and reactivity**10.1. Reactivity**

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

10.3. Possibility of hazardous reactions

Nothing special

10.4. Conditions to avoid

Avoid static electricity.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Substance	Species	Test	Route of exposure	Result
Solvent naphtha (petroleum), ...	Rat	LD50	Oral	>6800 mg/kg
Solvent naphtha (petroleum), ...	Rabbit	LD50	Dermal	>3500 mg/kg
Solvent naphtha (petroleum), ...	Rat	LC50	Inhalation	>6193 mg/m ³
Solvent naphtha (petroleum), ...	Rat	LC50	Inhalation	658000 mg/m ³
Solvent naphtha (petroleum), ...	Rat	LD50	Oral	>5000 mg/kg
butane	Rabbit	LD50	Dermal	>2800 mg/kg
Hydrocarbons, C7-C9, n- alkanes...	Rat	LC50	Inhalation	>193 mg/m ³
Hydrocarbons, C7-C9, n- alkanes...	Rat	LD50	Oral	5800 mg/kg
Hydrocarbons, C7-C9, n- alkanes...	Rabbit	LD50	Dermal	20000 mg/kg
Hydrocarbons, C7-C9, n- alkanes...	Rat	LC50	Inhalation	39 mg/m ³
Hydrocarbons, C7-C9, n- alkanes...	Rat	LD50	Oral	>5840 mg/kg
acetone	Rabbit	LD50	Dermal	>2920 mg/kg
acetone	Rat	LC50	Inhalation	>2 mg/m ³
Naphtha (petroleum), hydrotrea...				
Naphtha (petroleum), hydrotrea...				
Naphtha (petroleum), hydrotrea...				

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

May cause cancer.

Reproductive toxicity

No data available.

STOT-single exposure

May cause drowsiness or dizziness.

Data on substance: Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified [A complex combi

STOT-repeated exposure

No data available.

Aspiration hazard

May be fatal if swallowed and enters airways.

Long term effects

Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders.

Reproductive toxicity: This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The substances are classified as carcinogenic or listed by the Danish Working Environment Authority as substances suspected of being carcinogenic. The substances are covered by the DWEA's regulations on work involving the risk of cancer. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes

or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Duration	Result
Solvent naphtha (petroleum), ...				
Solvent naphtha (petroleum), ...				
Solvent naphtha (petroleum), ...	Daphnia	EC50	24 h	150 mg/l
...	Algae	EC50	72 h	2,9 mg/l
Solvent naphtha (petroleum), ...	Fish	LC50	96 h	3,77 mg/l
...	Daphnia	EC50	48 h	7,4 mg/l
Hydrocarbons, C7-C9, n- alkanes...	Crustacean	LC50		127 - 159 mg/l
acetone	Daphnia	EC50	48h	8800 mg/l
acetone	Daphnia	LC50	48h	2262 mg/l
acetone	Fish	LC50	96h	5540 mg/l
acetone	Crustacean	EC50	72h	30-100 mg/l
Naphtha (petroleum), hydrotrea...	Daphnia	EC50	48h	3 mg/l
Naphtha (petroleum), hydrotrea...	Fish	LC50	96h	11.4 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Solvent naphtha (petroleum), ...	Yes	Modified OECD Screening Test	78%
Naphtha (petroleum), hydrotrea...	Yes	No data available	No data available

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
Naphtha (petroleum), hydrotrea...	No	No data available	No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Contains epoxy compounds. See information supplied by the manufacturer.

12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms. This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Waste

EWC code

-

Specific labelling

-

Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

14.1. UN number 1950

14.2. UN proper shipping name -

14.3. Transport hazard class(es)	2
14.4. Packing group	-
Notes	-
Tunnel restriction code	D

IMDG

UN-no.	1950
Proper Shipping Name	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
Class	2.1
PG*	-
EmS	F-D,S-U
MP**	Yes
Hazardous constituent	5F Gases

IATA/ICAO

UN-no.	1950
Proper Shipping Name	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
Class	2.1
PG*	-

14.5. Environmental hazards

This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

14.6. Special precautions for user

-

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

No data available

(*) Packing group

(**) Marine pollutant

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

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Industrial use only.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

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Additional information

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Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

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 (CLP).

EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information**Full text of H-phrases as mentioned in section 3**

- H220 - Extremely flammable gas.
- H225 - Highly flammable liquid and vapour.
- H226 - Flammable liquid and vapour.
- H280 - Contains gas under pressure; may explode if heated.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.
- H350 - May cause cancer.
- H361 - Suspected of damaging fertility or the unborn child.
- H411 - Toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

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Additional label elements

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Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of physical hazards has been based on experimental data.

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by

**Date of last essential change
(First cipher in SDS version)**

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**Date of last minor change
(Last cipher in SDS version)**

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