

Safety Data Sheet (SDS) according to OSHA-GHS (29 CFR 1910.1200 HCS 2012) (US)  
INTRO KIT/ PROFESSIONAL KIT BONDPRO+ (Protection Serum)

KAO USA Inc.  
Cincinnati, Ohio 45214

Date printed 12.05.2016, Revision 12.05.2016

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

**1.1 Product identifier**

**INTRO KIT/ PROFESSIONAL KIT BONDPRO+ (Protection Serum)**  
**Article number: 266138-100ml (2K6139-100ml) ;**  
**266141-500ml (2K6142- 500ml)**

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

**1.2.1 Relevant uses**

hair treatment

**1.2.2 Uses advised against**

None known.

**1.3 Details of the supplier of the safety data sheet**

**Company** KAO USA Inc.  
2535 Spring Grove Avenue  
Cincinnati, Ohio 45214 / USA  
Phone

**Address enquiries to**

**Technical information**

**Safety Data Sheet** sdb@chemiebuero.de

**1.4 Emergency telephone number**

**Company** CHEMTREC: +1 703 527-3887 (24h)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Skin Irrit. 2: H315 Causes skin irritation.  
Eye Irrit. 2: H319 Causes serious eye irritation.

**2.2 Label elements**

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)  
This preparation is excluded as cosmetics for labelling requirements of 29 CFR 1910.1200-HCS 2012 in accordance to (b)(5)(iii).

**2.3 Other hazards**

**Other hazards** No particular hazards known.

**SECTION 3: Composition / Information on ingredients**

**Product-type:**

The product is a mixture.

Range [%]	Substance
1 - 5	Propane-1,2-diol CAS: 57-55-6, EINECS/ELINCS: 200-338-0, Reg-No.: 01-2119456809-23-xxxx

**Comment on component parts**

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.  
For full text of H-statements: see SECTION 16.

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#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

<b>General information</b>	Change soaked clothing.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Get medical advice.

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

No information available.

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

Treat symptomatically.  
Forward this sheet to the doctor.

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
<b>Extinguishing media that must not be used</b>	none

##### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

##### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.  
Fire residues must be disposed of in accordance within the local regulations.

#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Not required under normal conditions.

##### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into surface waters/groundwater.

##### 6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. acid binder).  
Dispose of absorbed material in accordance within the regulations.

##### 6.4 Reference to other sections

See SECTION 8+13

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

No special measures necessary if used correctly.

Do not eat, drink or smoke when using this product.  
Wash hands before breaks and after work.  
Use barrier skin cream.

**7.2 Conditions for safe storage, including any incompatibilities**

Prevent penetration into the ground.  
Only use containers that are approved specifically for the substance/product.  
Do not store together with oxidizing agents.  
Do not store together with food and animal food/diet.  
Keep container tightly closed.  
Keep container in a well-ventilated place.

**7.3 Specific end use(s)**

See product use, SECTION 1.2

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Ingredients with occupational exposure limits to be monitored (US)

not applicable

**DNEL**

Substance
Propane-1,2-diol, CAS: 57-55-6
Industrial, inhalative, Long-term - local effects: 10 mg/m <sup>3</sup> .
Industrial, inhalative, Long-term - systemic effects: 168 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 85 mg/kg bw/d.
general population, dermal, Long-term - systemic effects: 213 mg/kg bw/d.
general population, inhalative, Long-term - local effects: 10 mg/m <sup>3</sup> .
general population, inhalative, Long-term - systemic effects: 50 mg/m <sup>3</sup> .

**PNEC**

Substance
Propane-1,2-diol, CAS: 57-55-6
soil, 50 mg/kg dw.
sediment (seaater), 57,2 mg/kg dw.
sediment (freshwater), 572 mg/kg dw.
sewage treatment plants (STP), 20000 mg/l.
seawater, 26 mg/l.
freshwater, 260 mg/l.

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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	If there is a risk of splashing: safety glasses (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,4 mm; butyl rubber, > 120 min (EN 374)
<b>Skin protection</b>	Not required under normal conditions. Avoid contact with eyes.
<b>Respiratory protection</b>	Not required under normal conditions.
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form</b>	Gel
<b>Color</b>	yellowish
<b>Odor</b>	characteristic
<b>Odor threshold</b>	not determined
<b>pH-value</b>	3,3 - 3,6
<b>pH-value [1%]</b>	not determined
<b>Boiling point [°C]</b>	not determined
<b>Flash point [°C]</b>	not applicable
<b>Flammability [°C]</b>	not applicable
<b>Lower explosion limit</b>	not determined
<b>Upper explosion limit</b>	not determined
<b>Oxidizing properties</b>	no
<b>Vapor pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/ml]</b>	1,06 - 1,07
<b>Bulk density [kg/m<sup>3</sup>]</b>	not applicable
<b>Solubility in water</b>	miscible
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Viscosity</b>	2500 - 4000 cP (20 °C / 68,0 °F) (Brookfield RV DVIII Sp 4, 10 rpm )
<b>Relative vapor density determined in air</b>	not determined
<b>Evaporation speed</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Autoignition temperature [°C]</b>	not determined
<b>Decomposition temperature [°C]</b>	not determined

### 9.2 Other information

Refractive index:

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

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### 10.3 Possibility of hazardous reactions

Reactions with strong alkalis and oxidizing agents.

### 10.4 Conditions to avoid

No special measures necessary.

### 10.5 Incompatible materials

Oxidizing agent

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Substance
Propane-1,2-diol, CAS: 57-55-6
LD50, dermal, Rabbit: > 2000 mg/kg.
LD50, oral, Rat: > 22000 mg/kg.

#### Serious eye damage/irritation

Toxicological data of complete product are not available.  
Irritant  
Calculation method

#### Skin corrosion/irritation

Toxicological data of complete product are not available.  
Irritant  
Calculation method

#### Respiratory or skin sensitisation

Based on the information available, the classification criteria have not been fulfilled.

#### Specific target organ toxicity — single exposure

Based on the information available, the classification criteria have not been fulfilled.

#### Specific target organ toxicity — repeated exposure

Based on the information available, the classification criteria have not been fulfilled.

#### Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

#### Reproduction toxicity

Based on the information available, the classification criteria have not been fulfilled.

#### Carcinogenicity

Based on the information available, the classification criteria have not been fulfilled.

#### Aspiration hazard

Based on the information available, the classification criteria have not been fulfilled.

#### General remarks

This is a cosmetic product that is safe under intended and reasonable foreseeable use. Taking into account the use instructions, the toxicological profile of the ingredients and the evaluation of the final formulation this product is considered as safe and thus not harming human health.

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Propane-1,2-diol, CAS: 57-55-6
LC50, (96h), <i>Oncorhynchus mykiss</i> : 40613 mg/l.
EC50, (72h), <i>Selenastrum capricornutum</i> : 24200 mg/l.

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## 12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	No information available.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Other adverse effects

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product	Coordinate disposal with the disposal contractor/authorities if necessary.
Contaminated packaging	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
RCRA Hazard Class (40CFR 261)	Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

## SECTION 14: Transport

### 14.1 UN number

Transport by land according to ADR/RID not applicable

DOT Road Shipment Information (49 CFR) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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**14.2 UN proper shipping name**

Transport by land according to ADR/RID NO DANGEROUS GOODS

DOT Road Shipment Information (49 CFR) NOT CLASSIFIED AS "DANGEROUS GOODS"

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

**14.3 Transport hazard class(es)**

Transport by land according to ADR/RID not applicable

DOT Road Shipment Information (49 CFR) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

**14.4 Packing group**

Transport by land according to ADR/RID not applicable

DOT Road Shipment Information (49 CFR) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

**14.5 Environmental hazards**

Transport by land according to ADR/RID no

DOT Road Shipment Information (49 CFR) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

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

not applicable

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**SECTION 15: Regulatory information**

**US Regulations**

<b>National regulations</b>	29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65
- SARA, 302	This product does not contain any ingredients regulated under this list.
- SARA, 311	This product does not contain any ingredients regulated under this list.
- SARA, 313	This product does not contain any ingredients regulated under this list.
- CA Proposition 65	No chemical substances in this material are named on the California P65 list.
- TSCA	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.
- FDA	not applicable
American Conference of Governmental Industrial Hygienists - ACGIH	not determined
International Agency for Research on Cancer IARC	Not determined.
National Toxicology Program - NTP	This product is not named NTP - National Toxicology Program.
HAP-VOC	not applicable
Transport-regulations	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2016).

**SECTION 16: Other information**

<b>16.1 Hazard statements (SECTION 03)</b>	H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects. H315 Causes skin irritation. H319 Causes serious eye irritation.
<b>16.2 Abbreviations and acronyms:</b>	ACGIH = American Conference of Governmental Industrial Hygienists; ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route; RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses; ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DMEL = Derived Minimum Effect Level; DNEL = Derived No Effect Level; DOT = Department of Transportation; EC50 = Median effective concentration; EPA = Environmental Protection Agency; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; IATA = International Air Transport Association; IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 = Inhibition concentration, 50%; IMDG = International Maritime Code for Dangerous Goods; IARC = International Agency of Research on Cancer; IATA = International Air Transport Association; TSCA = Toxic Substance Control Act; HMIS = Hazardous Materials Identification System; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; OSHA = Occupational Safety and Health Administration; LC50 = Lethal concentration, 50%; LD50 = Median lethal dose, 50%; MARPOL = International Convention for the Prevention of Marine Pollution from Ships; PBT = Persistent, Bioaccumulative and Toxic substance; PNEC = Predicted No-Effect Concentration; REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals; SARA = Superfund Amendments and Reauthorization Act; TLV@/TWA = Threshold limit value – time-weighted average; TLV@STEL = Threshold limit value – short-time exposure limit; VOC = Volatile Organic Compounds; vPvB = very Persistent and very Bioaccumulative;



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### 16.3 Ratings

#### HMIS Ratings

HEALTH	2	2 - Moderate Hazard
FLAMMABILITY	1	1 - Slight Hazard
PHYSICAL HAZARD	0	0 - Minimal Hazard
PERSONAL PROTECTION	X	X - Personal protection rating to be supplied by user depending on use conditions

#### NFPA Ratings

1
2 0
-

TOP, FLAMMABILITY: 1 - Slight Hazard

LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard

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