

**Safety Data Sheet**  
acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**1 Identification**

· **Product identifier**

· **Trade name: Smoke Flavor SMK350 Natural**

· **Product number: 1774**

· **Application of the substance / the mixture** Flavoring Ingredients

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

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· **Manufacturer/Supplier:**

Advanced Biotech  
10 Taft Road  
Totowa, NJ 07512 USA

· **Information department:**

Product Safety Department  
productsafety@adv-bio.com

· **Emergency telephone number:**

Infotrac: 1-800-535-5053 (Domestic) & 1-352-323-3500 (International)  
Email: responders@infotrac.net & During normal business hours: 1-973-339-6242

**2 Hazard(s) identification**

· **Classification of the substance or mixture**



GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

(Continued on page 2)

**Safety Data Sheet**  
 acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 1)

· **GHS label elements**

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.  
 The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

hydroxyacetone  
 2-Furaldehyde  
 Propionic acid  
 cresol (mix)  
 Isoeugenol  
 2-Methoxy-4-methylphenol  
 Eugenol  
 2-Methoxy-4-propylphenol

· **Hazard statements**

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H341 Suspected of causing genetic defects.  
 H351 Suspected of causing cancer.  
 H335 May cause respiratory irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P260 Do not breathe/dust/fume/gas/mist/vapors/spray.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a poison center/doctor.  
 P321 Specific treatment (see on this label).  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 3  
 Fire = 1  
 Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*3  
 Fire = 1  
 Reactivity = 0

(Continued on page 3)

**Safety Data Sheet**  
acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

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**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 2)

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 116-09-6 EINECS: 204-124-8	hydroxyacetone ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H311; ⚠ Acute Tox. 4, H332	≥2.5-≤10%
CAS: 79-09-4 EINECS: 201-176-3	Propionic acid ⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ STOT SE 3, H335	≥3-<10%
CAS: 80-71-7 EINECS: 201-303-2	Methylcyclopentenolone ⚠ Acute Tox. 4, H302	≥0-≤10%
CAS: 98-01-1 EINECS: 202-627-7	2-Furaldehyde ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H301; Acute Tox. 2, H330; ⚠ Carc. 2, H351; ⚠ Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≥0.1-<10%
CAS: 90-05-1 EINECS: 201-964-7	Guaiacol ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≥0-<10%
CAS: 91-10-1 EINECS: 202-041-1	2,6-Dimethoxyphenol ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≥0-<10%
CAS: 93-51-6 EINECS: 202-252-9	2-Methoxy-4-methylphenol ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317	≥1-≤2.5%
CAS: 96-48-0 EINECS: 202-509-5	4-Hydroxybutanoic acid lactone ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; STOT SE 3, H336	≥1-≤2.5%
CAS: 97-54-1 EINECS: 202-590-7	Isoeugenol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1A, H317; STOT SE 3, H335	≥1-≤2.5%
CAS: 108-95-2 EINECS: 203-632-7	Phenol ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Muta. 2, H341; STOT RE 2, H373; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318	≥1-≤2.5%
CAS: 1319-77-3 EINECS: 215-293-2	cresol (mix) ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; Flam. Liq. 4, H227	≥1-≤2.5%
CAS: 5077-67-8 EINECS: 225-790-6	1-hydroxybutan-2-one ⚠ Flam. Liq. 3, H226	≥0-≤2.5%
CAS: 6638-05-7 EINECS: 229-641-6	4-Methyl-2,6-Dimethoxyphenol ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≥0-≤2.5%

(Continued on page 4)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 3)

CAS: 97-53-0 EINECS: 202-589-1	Eugenol ⚠ Eye Irrit. 2A, H319; Skin Sens. 1B, H317	≥0.1-<1%
CAS: 2785-87-7 EINECS: 220-499-0	2-Methoxy-4-propylphenol ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317; STOT SE 3, H335	≥0.1-<1%

## 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
Supply fresh air and be sure to call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or alcoholresistant foam.  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.

(Continued on page 5)

**Safety Data Sheet**  
 acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 4)

Ensure adequate ventilation.

· **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 disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

CAS: 116-09-6	hydroxyacetone	6.6 mg/m <sup>3</sup>
CAS: 79-09-4	Propionic acid	15 ppm
CAS: 98-01-1	2-Furaldehyde	2 ppm
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	3.6 mg/m <sup>3</sup>
CAS: 108-95-2	Phenol	15 ppm
CAS: 1319-77-3	cresol (mix)	14 ppm

· **PAC-2:**

CAS: 116-09-6	hydroxyacetone	73 mg/m <sup>3</sup>
CAS: 79-09-4	Propionic acid	28 ppm
CAS: 98-01-1	2-Furaldehyde	10 ppm
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	39 mg/m <sup>3</sup>
CAS: 108-95-2	Phenol	23 ppm
CAS: 1319-77-3	cresol (mix)	25 ppm

· **PAC-3:**

CAS: 116-09-6	hydroxyacetone	440 mg/m <sup>3</sup>
CAS: 79-09-4	Propionic acid	170 ppm
CAS: 98-01-1	2-Furaldehyde	100 ppm
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	310 mg/m <sup>3</sup>
CAS: 108-95-2	Phenol	200 ppm
CAS: 1319-77-3	cresol (mix)	250 ppm

**7 Handling and storage**

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep respiratory protective device available.

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

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

No special requirements.

Please refer to product specification for product storage requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

(Continued on page 6)

**Safety Data Sheet**  
 acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 5)

· **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

<b>CAS: 79-09-4 Propionic acid</b>	
REL	Short-term value: 45 mg/m <sup>3</sup> , 15 ppm Long-term value: 30 mg/m <sup>3</sup> , 10 ppm
TLV	Long-term value: 30 mg/m <sup>3</sup> , 10 ppm
<b>CAS: 98-01-1 2-Furaldehyde</b>	
PEL	Long-term value: 20 mg/m <sup>3</sup> , 5 ppm Skin
TLV	Long-term value: 0.8 mg/m <sup>3</sup> , 0.2 ppm Skin; BEI
<b>CAS: 108-95-2 Phenol</b>	
PEL	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Skin
REL	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Ceiling limit value: 60* mg/m <sup>3</sup> , 15.6* ppm *15-min; Skin
TLV	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Skin; BEI
<b>CAS: 1319-77-3 cresol (mix)</b>	
PEL	Long-term value: 22 mg/m <sup>3</sup> , 5 ppm Skin
REL	Long-term value: 10 mg/m <sup>3</sup> , 2.3 ppm
TLV	Long-term value: 20* mg/m <sup>3</sup> Skin;*as inhalable fraction and vapor

· **Ingredients with biological limit values:**

<b>CAS: 98-01-1 2-Furaldehyde</b>	
BEI	200 mg/L Medium: urine Time: end of shift Parameter: Furoic acid with hydrolysis (nonspecific)
<b>CAS: 108-95-2 Phenol</b>	
BEI	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)

· **Additional information:** The lists that were valid during the creation were used as a basis.

(Continued on page 7)

**Safety Data Sheet**  
 acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 6)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Store protective clothing separately.  
 Avoid contact with the eyes.  
 Avoid contact with the eyes and skin.
- **Breathing equipment:**  
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
 The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Color:	According to product specification
Odor:	According to product specification
Odor threshold:	Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	Undetermined.
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(Continued on page 8)

**Safety Data Sheet**  
 acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 7)

<b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flash point:</b>	>110 °C (>230 °F)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	485 °C (905 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density at 20 °C (68 °F):</b>	1.155 g/cm <sup>3</sup> (9.63848 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0-7.5 %
<b>Water:</b>	1.0 %
<b>VOC content:</b>	0-7.5 % 86.6 g/l / 0.72 lb/gal
<b>Solids content:</b>	0.0 %
· <b>Other information</b>	No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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(Continued on page 9)



**Safety Data Sheet**  
acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Smoke Flavor SMK350 Natural

(Continuation of page 8)

**11 Toxicological information**

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

**ATE (Acute Toxicity Estimate)**

Oral	LD50	668-3328 mg/kg
Dermal	LD50	1552-7153 mg/kg
Inhalative	LC50/4 h	12.8-56.4 mg/l

**CAS: 116-09-6 hydroxyacetone**

Oral	LD50	2200 mg/kg (rat)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	11 mg/l (ATE)

**CAS: 98-01-1 2-Furaldehyde**

Oral	LD50	100 mg/kg (ATE) 65 mg/kg (rat)
Dermal	LD50	1100 mg/kg (ATE)
Inhalative	LC50/4 h	1 mg/l (ATE)

**CAS: 108-95-2 Phenol**

Oral	LD50	100 mg/kg (ATE) 317 mg/kg (rat)
Dermal	LD50	300 mg/kg (ATE) 850 mg/kg (rabbit)
Inhalative	LC50/4 h	3 mg/l (ATE)

**CAS: 1319-77-3 cresol (mix)**

Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)

· Primary irritant effect:

· on the skin: No irritant effect.

· on the eye: Strong irritant with the danger of severe eye injury.

· Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 98-01-1	2-Furaldehyde	3
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	3
CAS: 108-95-2	Phenol	3
CAS: 97-53-0	Eugenol	3

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Continued on page 10)

**Safety Data Sheet**  
 acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 9)

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 3 (Self-assessment): extremely hazardous for water  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.  
 Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- |                                     |   |
|-------------------------------------|---|
| · <b>UN-Number</b>                  | UN1760  |
| · <b>DOT, IMDG, IATA</b>            |   |
| · <b>UN proper shipping name</b>    | Corrosive liquids, n.o.s. (Propionic acid, Cresols) |
| · <b>DOT</b>                        | CORROSIVE LIQUID, N.O.S. (PROPIONIC ACID, CRESOLS)  |
| · <b>IMDG, IATA</b>                 |   |
| · <b>Transport hazard class(es)</b> |   |
| · <b>DOT</b>                        |   |
| · <b>Class</b>                      | 8 Corrosive substances                              |



(Continued on page 11)


**Safety Data Sheet**  
acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 10)

· <b>Label</b>	8
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· <b>IMDG, IATA</b>	
	
· <b>Class</b>	8 Corrosive substances
· <b>Label</b>	8
· <b>Packing group</b>	
· <b>DOT, IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Corrosive substances
· <b>Hazard identification number (Kemler code):</b>	80
· <b>EMS Number:</b>	F-A,S-B
· <b>Segregation groups</b>	Acids
· <b>Stowage Category</b>	A
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1760 CORROSIVE LIQUID, N.O.S. (PROPIONIC ACID, CRESOLS), 8, III

**15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· **Section 355 (extremely hazardous substances):**

CAS: 108-95-2 Phenol

· **Section 313 (Specific toxic chemical listings):**

CAS: 108-95-2 Phenol

CAS: 1319-77-3 cresol (mix)

· **TSCA (Toxic Substances Control Act):**

CAS: 116-09-6 hydroxyacetone

ACTIVE

CAS: 79-09-4 Propionic acid

ACTIVE

(Continued on page 12)

**Safety Data Sheet**  
acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 11)

CAS: 80-71-7	Methylcyclopentenolone	ACTIVE
CAS: 98-01-1	2-Furaldehyde	ACTIVE
CAS: 90-05-1	Guaiacol	ACTIVE
CAS: 91-10-1	2,6-Dimethoxyphenol	ACTIVE
CAS: 93-51-6	2-Methoxy-4-methylphenol	ACTIVE
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	ACTIVE
CAS: 97-54-1	Isoeugenol	ACTIVE
CAS: 108-95-2	Phenol	ACTIVE
CAS: 1319-77-3	cresol (mix)	ACTIVE
CAS: 5077-67-8	1-hydroxybutan-2-one	ACTIVE
CAS: 7732-18-5	Deionized Water	ACTIVE
CAS: 97-53-0	Eugenol	ACTIVE
CAS: 2785-87-7	2-Methoxy-4-propylphenol	ACTIVE

**· Hazardous Air Pollutants**

CAS: 108-95-2	Phenol
CAS: 1319-77-3	cresol (mix)

**· Proposition 65**

**· Chemicals known to cause cancer:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Carcinogenic categories**

**· EPA (Environmental Protection Agency)**

CAS: 108-95-2	Phenol	D, I
CAS: 1319-77-3	cresol (mix)	C

**· TLV (Threshold Limit Value established by ACGIH)**

CAS: 98-01-1	2-Furaldehyde	A3
CAS: 108-95-2	Phenol	A4

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· GHS label elements**

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Continued on page 13)

**Safety Data Sheet**  
 acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 12)

· **Hazard pictograms**



GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

hydroxyacetone  
 2-Furaldehyde  
 Propionic acid  
 cresol (mix)  
 Isoeugenol  
 2-Methoxy-4-methylphenol  
 Eugenol  
 2-Methoxy-4-propylphenol

· **Hazard statements**

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H341 Suspected of causing genetic defects.  
 H351 Suspected of causing cancer.  
 H335 May cause respiratory irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P260 Do not breathe/dust/fume/gas/mist/vapors/spray.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a poison center/doctor.  
 P321 Specific treatment (see on this label).  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H226 Flammable liquid and vapor.  
 H227 Combustible liquid.  
 H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H311 Toxic in contact with skin.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.

(Continued on page 14)

**Safety Data Sheet**  
acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/12/2021

Reviewed on 01/12/2021

**Trade name: Smoke Flavor SMK350 Natural**

(Continuation of page 13)

H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H341 Suspected of causing genetic defects.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

• **Department issuing SDS:** Product Safety Department

• **Contact:**

Product Safety Department  
productsafety@adv-bio.com

• **Date of preparation / last revision** 01/12/2021 / -

• **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Skin Sens. 1B: Skin sensitisation – Category 1B

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2