

## Evaluation Report for Category B, Subcategory 1.2 Application

**Application Number:** 2018-3241  
**Application:** New TGAI Product Chemistry-New Source (Site), New Registrant  
**Product:** Norac Crushed Garlic Technical  
**Registration Number:** 34096  
**Active ingredient (a.i.):** crushed garlic  
**PMRA Document Number :** 3212428

### Purpose of Application

The purpose of this application was to register Norac Crushed Garlic Technical, a new technical-grade product containing crushed garlic.

### Chemistry Assessment

Common Name: Crushed Garlic (non-ISO common name)  
IUPAC\* Chemical Name: Not applicable  
CAS† Chemical Name: Not applicable

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Norac Crushed Garlic Technical has the following properties:

Property	Result
Colour and physical state	Off-white to yellow liquid
Nominal concentration	100 %
Odour	Garlic odour
Density	1.5488 – 1.5595 g/cm <sup>3</sup>
Vapour pressure	N/A
pH	10.12 (1% solution)
Solubility in water	N/A
n-Octanol/water partition coefficient	N/A

The required chemistry data for Norac Crushed Garlic Technical have been provided, reviewed, and found to be acceptable.

## Health Assessments

Norac Crushed Garlic Technical is of slight acute toxicity by the oral route, low acute toxicity by the dermal route, a skin irritant, a serious eye irritant and may cause respiratory irritation. Garlic is a skin sensitizer. Data requirements for short-term toxicity, prenatal developmental toxicity, and genotoxicity were not required based on the long history of safe consumption of garlic as a whole foodstuff and garlic juice in natural health products.

Dietary and occupational exposure risk assessments were not required for this application.

## Environmental Assessment

Norac Crushed Garlic Technical, is acceptable from an environmental perspective when used according to label directions.

## Value Assessment

A value assessment was not required for this application.

## Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to register Norac Crushed Garlic Technical.

## References

### A. List of Studies/Information Submitted by Registrant

<b>PMRA Document Number</b>	<b>Reference</b>
2905249	2018, Chemistry Data, DACO: 2.0,2.1,2.11,2.11.1, 2.11.2, 2.11.3, 2.12.1, 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4, 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.13, 2.14.14
2912323	2018, Chemistry Data, DACO: 2.0,2.1,2.11,2.11.1,2.11.2, 2.11.3, 2.12.1, 2.13,2.13.1,2.13.2,2.13.3,2.13.4,2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.14
3054055	2019, Detailed Production Process Description Crushed Garlic Technical, DACO: 2.11.3 CBI
3054056	2019, The Colour of Crushed Garlic Technical, DACO: 2.14.1 CBI
2905250	2018, Acute Tox, DACO: 4.2,4.2.1,4.2.2,4.2.3,4.2.4,4.2.5,4.2.6

### B. Additional Information Considered

#### Published Information

<b>PMRA Document Number</b>	<b>Reference</b>
3192427	Bassioukas, K., D. Orton and R. Cerio, 2004. Occupational airborne allergic contact dermatitis from garlic concurrent with Type I allergy. Contact Dermatitis 50: 39-50.
3192442	Papageorgiou, C. J.P-Corbet, F. Menezes-Bradao, M. Pecegueiro and C. Benezra. 1983. Arch Dermatol Res 1983 275: 229-234
3195485	ChemID Plus Garlic Oil. National Institute of Health, US National Library of Medicine. <a href="https://chem.nlm.nih.gov/chemidplus/rn/8000-78-0">https://chem.nlm.nih.gov/chemidplus/rn/8000-78-0</a> (accessed 12/9/2020).
3195486	ChemID Plus Diallyl disulfide. National Institute of Health, US National Library of Medicine. <a href="https://chem.nlm.nih.gov/chemidplus/rn/2179-57-9">https://chem.nlm.nih.gov/chemidplus/rn/2179-57-9</a> (accessed 12/9/2020).
3195484	PubChem Allicin. National Institute of Health, US National Library of Medicine. <a href="https://pubchem.ncbi.nlm.nih.gov/compound/Allicin">https://pubchem.ncbi.nlm.nih.gov/compound/Allicin</a> (accessed 11/9/2020).

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